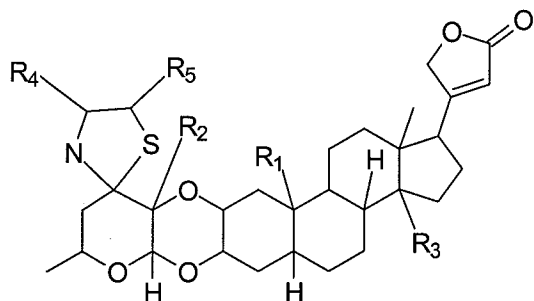


AMENDMENTS TO THE CLAIMS

1. (Previously presented) A compound of the formula I or a pharmaceutically acceptable salt thereof,
 formula I



wherein R¹ is selected from the group consisting of hydrogen, alkyl, alkenyl, alkynyl, alkyloxy, alkyloxyalkyl, alkylthioalkyl, alkyloxycarbonyl, alkylthiocarbonyl, alkanoyl, cycloalkylalkyl, cycloalkylcarbonyl, cycloalkylalkanoyl, cycloalkylthiocarbonyl, cycloalkylalkoxycarbonyl, cycloalkylalkoxythiocarbonyl, cycloalkylthioalkyl, alkylcarbonyloxyalkyl, arylcarbonyloxyalkyl, cycloalkylcarbonyloxyalkyl, silyloxyalkyl, aralkyl, arylalkenyl, arylcarbonyl, aryloxycarbonyl, arylthiocarbonyl, aralkoxycarbonyl, arylalkylthiocarbonyl, aryloxyalkyl, arylthioalkyl, haloalkyl, hydroxyalkyl, aralkanoyl, aroyl, aryloxycarbonylalkyl, aryloxyalkanoyl, carboxyl, formyl, alkenylcarbonyl, alkynylcarbonyl, Het¹, Het¹alkyl, Het¹oxyalkyl, Het¹aryl, Het¹aralkyl, Het¹cycloalkyl, Het¹carbonyl, Het¹alkoxycarbonyl, Het¹alkylthiocarbonyl, Het¹oxycarbonyl, Het¹thiocarbonyl, Het¹alkanoyl, Het¹aralkanoyl, Het¹aryloxyalkyl, Het¹alkyloxyalkyl, Het¹arylthioalkyl, Het¹aryloxycarbonyl, Het¹aralkoxycarbonyl, Het¹aroyl, Het¹oxyalkylcarbonyl, Het¹alkyloxyalkylcarbonyl, Het¹aryloxyalkylcarbonyl, Het¹carbonyloxyalkyl, Het¹alkylcarbonyloxyalkyl, Het¹aralkylcarbonyloxyalkyl, Het²alkyl; Het²oxyalkyl, Het²alkyloxyalkyl, Het²aralkyl, Het²carbonyl, Het²oxycarbonyl, Het²thiocarbonyl, Het²alkanoyl, Het²alkylthiocarbonyl, Het²alkoxycarbonyl, Het²aralkanoyl, Het²aralkoxycarbonyl, Het²aryloxycarbonyl, Het²aroyl, Het²aryloxyalkyl, Het²arylthioalkyl, Het²oxyalkylcarbonyl, Het²alkyloxyalkylcarbonyl, Het²aryloxyalkylcarbonyl, Het²carbonyloxyalkyl, Het²alkylcarbonyloxyalkyl, Het²aralkylcarbonyloxyalkyl, cyano, aminocarbonyl, aminoalkanoyl, aminoalkyl, CR⁶=NR⁷ and CR⁶=N(OR⁷), with R⁶ and R⁷ being independently selected from the group consisting of hydrogen, hydroxyl, alkyl, aryl, Het¹, Het¹alkyl, Het¹aryl, alkenyl, alkynyl,

aminoalkyl, aminoaryl, alkylcarbonylamino, arylcarbonylamino, alkylthiocarbonylamino and arylthiocarbonylamino;

wherein R^2 and R^3 are independently selected from the group consisting of hydroxyl, alkyloxy, alkylsilyloxy, arylsilyloxy, alkyloxyalkyloxy, cycloalkyloxy, cycloalkylalkyloxy, aralkyloxy, aryloxyalkyloxy, silyloxy, alkylcarbonyloxy, arylcarbonyloxy, cycloalkylcarbonyloxy, haloalkyloxy, hydroxyalkyloxy, aralkanoyloxy, aroyloxy, aryloxycarbonylalkyloxy, formyloxy, Het¹alkyloxy, Het¹oxy, Het¹oxyalkyloxy, Het¹aryloxy, Het¹aralkyloxy, Het¹cycloalkyloxy, Het¹carbonyloxy, Het¹oxycarbonyloxy, Het¹alkanoyloxy, Het¹aralkanoyloxy, Het¹aryloxyalkyloxy, Het¹aroyl, Het²oxy, Het²alkyloxy, Het²oxyalkyloxy, Het²aralkyloxy, Het²cycloalkyloxy, Het²alkanoyloxy, Het²aralkanoyloxy, Het²carbonyloxy, Het²aryloxy, and Het²aryloxyalkyloxy,

wherein R^1 , R^2 and R^3 are unsubstituted or substituted by one or more substituents independently selected from the group consisting of alkyl, aralkyl, aryl, Het¹, Het², cycloalkyl, alkyloxycarbonyl, carboxyl, aminocarbonyl, mono- or di(alkyl)aminocarbonyl, aminosulfonyl, alkylS(=O)_t, hydroxy, cyano, halogen and amino, unsubstituted, mono- or disubstituted wherein the substituents are independently selected from the group consisting of alkyl, aryl, aralkyl, aryloxy, arylamino, arylthio, aryloxyalkyl, arylaminoalkyl, aralkoxy, alkylthio, alkoxy, aryloxyalkoxy, arylaminoalkoxy, aralkylamino, aryloxyalkylamino, arylaminoalkylamino, arylthioalkoxy, arylthioalkylamino, aralkylthio, aryloxyalkylthio, arylaminoalkylthio, arylthioalkylthio, alkylamino, cycloalkyl, cycloalkylalkyl, Het¹, Het², Het¹alkyl, Het²alkyl, Het¹amino, Het²amino, Het¹alkylamino, Het²alkylamino, Het¹thio, Het²thio, Het¹alkylthio, Het²alkylthio, Het¹oxy and Het²oxy, OR⁸, SR⁸, SO₂NR⁸R⁹, SO₂N(OH)R⁸, CN, CR⁸=NR⁹, S(O)R⁸, SO₂R⁸, CR⁸=N(OR⁹), N₃, NO₂, NR⁸R⁹, N(OH)R⁸, C(O)R⁸, C(S)R⁸, CO₂R⁸, C(O)SR⁸, C(O)NR⁸R⁹, C(S)NR⁸R⁹, C(O)N(OH)R⁹, C(S)N(OH)R⁸, NR⁸C(O)R⁹, NR⁸C(S)R⁹, N(OH)C(O)R⁹, N(OH)C(S)R⁸, NR⁸CO₂R⁹, NR⁸C(O)NR⁹R¹⁰, NR⁸C(S)NR⁹R¹⁰, N(OH)CO₂R⁸, NR⁸C(O)SR⁹, N(OH)C(O)NR⁸R⁹, N(OH)C(S)NR⁸R⁹, NR⁸C(O)N(OH)R⁹, NR⁸C(S)N(OH)R⁹, NR⁸SO₂R⁹, NHSO₂NR⁸R⁹, NR⁸SO₂NHR⁹, and P(O)(OR⁸)(OR⁹),

with t being an integer between 1 and 2, and R⁸, R⁹ and R¹⁰ being each independently selected from the group consisting of hydrogen, hydroxyl, alkyl, aryl, Het¹, Het¹alkyl, Het¹aryl, alkenyl,

alkynyl, aminoalkyl, aminoaryl, alkylcarbonylamino, arylcarbonylamino, alkylthiocarbonylamino and arylthiocarbonylamino;

wherein R⁴ is selected from the group consisting of oxo, hydroxyl, alkyl, alkenyl, alkynyl, alkanediyl, alkyloxy, alkylthio, alkylamino, alkyloxyalkyl, arylcarbonylalkyl, alkylcarbonylalkyl, alkanoyl, cycloalkylcarbonylalkyl,

cycloalkyl, cycloalkyloxy, cycloalkylthio, cycloalkylamino, cycloalkylalkyl, cycloalkylalkanoyl, aryl, aralkyl, arylalkenyl, arylcarbonyloxy, aryloxycarbonyloxy, aralkoxy, aryloxyalkyl, haloalkyloxy, haloalkylthio, haloalkylamino, hydroxyalkyl, aralkanoyl, aryloxycarbonylalkyl, aryloxyalkanoyl, Het¹, Het¹alkyl, Het¹oxy, Het¹oxyalkyl, Het¹aryl, Het¹aralkyl, Het¹cycloalkyl, Het¹aryloxyalkyl, Het¹aroyl, Het², Het²oxy, Het²alkyl, Het²oxyalkyl, Het²aralkyl, Het²cycloalkyl, Het²aryl, Het²alkanoyl, Het²aralkanoyl, Het²aroyl, Het²aryloxyalkyl, aminocarbonyl, aminoalkanoyl, and aminoalkyl, unsubstituted or substituted by one or more substituents independently selected from the group consisting of alkyl, aralkyl, aryl, Het¹, Het², cycloalkyl, alkyloxy, carboxyl, aminocarbonyl, mono- or di(alkyl)aminocarbonyl, aminosulfonyl, alkylS(=O)_t, hydroxy, cyano, halogen and amino, unsubstituted, mono- or disubstituted wherein the substituents are independently selected from the group consisting of alkyl, aryl, aralkyl, aryloxy, arylamino, arylthio, aryloxyalkyl, arylaminoalkyl, aralkoxy, alkylthio, alkoxy, aryloxyalkoxy, arylaminoalkoxy, aralkylamino, aryloxyalkylamino, arylaminoalkylamino, arylthioalkoxy, arylthioalkylamino, aralkylthio, aryloxyalkylthio, arylaminoalkylthio, arylthioalkylthio, alkylamino, cycloalkyl, cycloalkylalkyl, Het¹, Het², Het¹alkyl, Het²alkyl, Het¹amino, Het²amino, Het¹alkylamino, Het²alkylamino, Het¹thio, Het²thio, Het¹alkylthio, Het²alkylthio, Het¹oxy and Het²oxy, OR¹¹, SR¹¹, SO₂NR¹¹R¹², SO₂N(OH)R¹¹, CN, CR¹¹=NR¹², S(O)R¹¹, SO₂R¹¹, CR¹¹=N(OR¹²), N₃, NO₂, NR¹¹R¹², N(OH)R¹¹, C(O)R¹¹, C(S)R¹¹, CO₂R¹¹, C(O)SR¹¹, C(O)NR¹¹R¹², C(S)NR¹¹R¹², C(O)N(OH)R¹², C(S)N(OH)R¹¹, NR¹¹C(O)R¹², NR¹¹C(S)R¹², N(OH)C(O)R¹², N(OH)C(S)R¹¹, NR¹¹CO₂R¹², NR¹¹C(O)NR¹²R¹³, and NR¹¹C(S)NR¹²R¹³, N(OH)CO₂R¹¹, NR¹¹C(O)SR¹², N(OH)C(O)NR¹¹R¹², N(OH)C(S)NR¹¹R¹², NR¹¹C(O)N(OH)R¹², NR¹¹C(S)N(OH)R¹², NR¹¹SO₂R¹², NHSO₂NR¹¹R¹², NR¹¹SO₂NHR¹², P(O)(OR¹¹)(OR¹²), wherein t is an integer between 1 and 2, R¹¹, R¹² and R¹³ are each independently selected from the group consisting of hydrogen, alkyl, alkenyl, and alkynyl; and

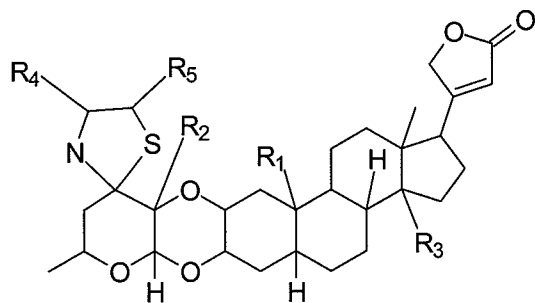
wherein R^5 is selected from the group consisting of hydrogen, oxo, hydroxyl, alkyl, alkenyl, alkynyl, alkanediyl, alkyloxy, alkyloxyalkyl, arylcarbonylalkyl, alkylcarbonylalkyl, alkanoyl, cycloalkylcarbonylalkyl, cycloalkyl, cycloalkylalkyl, cycloalkylalkanoyl, aryl, aralkyl, arylalkenyl, arylcarbonyloxy, aryloxy, aryloxyalkyl, haloalkyl, hydroxyalkyl, aralkanoyl, aryloxy, aryloxyalkyl, aryloxyalkanoyl, Het¹, Het¹alkyl, Het¹oxy, Het¹oxyalkyl, Het¹aryl, Het¹aralkyl, Het¹cycloalkyl, Het¹aryloxyalkyl, Het¹aroyle, Het², Het²oxy, Het²alkyl; Het²oxyalkyl, Het²aralkyl, Het²cycloalkyl, Het²aryl, Het²alkanoyl, Het²aralkanoyl, Het²aroyle, Het²aryloxyalkyl, aminocarbonyl, aminoalkanoyl, and aminoalkyl, unsubstituted or substituted by one or more substituents independently selected from the group consisting of alkyl, aralkyl, aryl, Het¹, Het², cycloalkyl, alkyloxy, aryloxy, carboxyl, aminocarbonyl, mono- or di(alkyl)aminocarbonyl, aminosulfonyl, alkylS(=O)_t, hydroxy, cyano, halogen and amino, unsubstituted, mono- or disubstituted wherein the substituents are independently selected from the group consisting of alkyl, aryl, aralkyl, aryloxy, arylamino, arylthio, aryloxyalkyl, arylaminoalkyl, aralkoxy, alkylthio, alkoxy, aryloxyalkoxy, arylaminoalkoxy, aralkylamino, aryloxyalkylamino, arylaminoalkylamino, arylthioalkoxy, arylthioalkylamino, aralkylthio, aryloxyalkylthio, arylaminoalkylthio, arylthioalkylthio, alkylamino, cycloalkyl, cycloalkylalkyl, Het¹, Het², Het¹alkyl, Het²alkyl, Het¹amino, Het²amino, Het¹alkylamino, Het²alkylamino, Het¹thio, Het²thio, Het¹alkylthio, Het²alkylthio, Het¹oxy and Het²oxy, OR¹¹, SR¹¹, SO₂NR¹¹R¹², SO₂N(OH)R¹¹, CN, CR¹¹=NR¹², S(O)R¹¹, SO₂R¹¹, CR¹¹=N(OR¹²), N₃, NO₂, NR¹¹R¹², N(OH)R¹¹, C(O)R¹¹, C(S)R¹¹, CO₂R¹¹, C(O)SR¹¹, C(O)NR¹¹R¹², C(S)NR¹¹R¹², C(O)N(OH)R¹², C(S)N(OH)R¹¹, NR¹¹C(O)R¹², NR¹¹C(S)R¹², N(OH)C(O)R¹², N(OH)C(S)R¹¹, NR¹¹CO₂R¹², NR¹¹C(O)NR¹²R¹³, and NR¹¹C(S)NR¹²R¹³, N(OH)CO₂R¹¹, NR¹¹C(O)SR¹², N(OH)C(O)NR¹¹R¹², N(OH)C(S)NR¹¹R¹², NR¹¹C(O)N(OH)R¹², NR¹¹C(S)N(OH)R¹², NR¹¹SO₂R¹², NHSO₂NR¹¹R¹², NR¹¹SO₂NHR¹², and P(O)(OR¹¹)(OR¹²), wherein t is an integer between 1 and 2, R¹¹, R¹² and R¹³ are each independently selected from the group consisting of hydrogen, alkyl, alkenyl, and alkynyl;

wherein Het¹ is defined as a saturated or partially unsaturated monocyclic, bicyclic or polycyclic heterocycle consisting of 3 to 12 ring members which comprise one or more heteroatom ring members selected from nitrogen, oxygen or sulfur, optionally substituted on one or more carbon atoms by alkyl, alkyloxy, halogen, hydroxyl, oxo, optionally mono- or disubstituted amino, nitro,

cyano, haloalkyl, carboxyl, alkoxycarbonyl cycloalkyl, optionally mono-or disubstituted aminocarbonyl, methylthio, methylsulfonyl, aryl and a saturated or partially unsaturated monocyclic, bicyclic or tricyclic heterocycle consisting of 3 to 12 ring members which contain one or more heteroatom ring members selected from nitrogen, oxygen or sulfur and whereby the optional substituents on any amino function are independently selected from alkyl, alkyloxy, Het², Het²alkyl, Het²oxy, Het²oxyalkyl, aryl, aryloxy, aryloxyalkyl, aralkyl, alkyloxycarbonylamino, amino and aminoalkyl whereby each of the amino groups may optionally be mono-or disubstituted with alkyl;

wherein Het² is defined as an aromatic monocyclic, bicyclic or tricyclic heterocycle consisting of 3 to 12 ring members comprising one or more heteroatom ring members selected from nitrogen, oxygen or sulfur and optionally substituted on one or more carbon atoms by alkyl, alkyloxy, halogen, hydroxyl, optionally mono-or disubstituted amino, nitro, cyano, haloalkyl, carboxyl, alkoxycarbonyl, cycloalkyl, optionally mono-or disubstituted aminocarbonyl, methylthio, methylsulfonyl, aryl, Het¹ and an aromatic monocyclic, bicyclic, or tricyclic heterocycle consisting of 3 to 12 ring members, whereby the optional substituents on any amino function are independently selected from alkyl, alkyloxy, Het¹, Het¹alkyl, Het¹oxy, Het¹oxyalkyl, aryl, aryloxy, aryloxyalkyl, aralkyl, alkyloxycarbonylamino, amino, and amionalkyl whereby each of the amino groups may optionally be mono- or disubstituted with alkyl.

2. (Previously presented) A compound according to claim 1, having the formula I or a pharmaceutically acceptable salt thereof,
formula I



wherein R¹ is selected from the group consisting of alkyl, alkenyl, alkynyl, alkyloxy, alkyloxyalkyl, alkylthioalkyl, alkyloxycarbonyl, alkylthiocarbonyl, alkanoyl, cycloalkylalkyl,

cycloalkylcarbonyl, cycloalkylalkanoyl, cycloalkylthiocarbonyl, cycloalkylalkoxycarbonyl, cycloalkylalkoxythiocarbonyl, cycloalkylthioalkyl, alkylcarbonyloxyalkyl, arylcarbonyloxyalkyl, cycloalkylcarbonyloxyalkyl, silyloxyalkyl, aralkyl, arylalkenyl, arylcarbonyl, aryloxycarbonyl, arylthiocarbonyl, aralkoxycarbonyl, arylalkylthiocarbonyl, aryloxyalkyl, arylthioalkyl, haloalkyl, hydroxyalkyl, aralkanoyl, aroyl, aryloxycarbonylalkyl, aryloxyalkanoyl, carboxyl, formyl, alkenylcarbonyl, alkynylcarbonyl, Het¹, Het¹alkyl, Het¹oxyalkyl, Het¹aryl, Het¹aralkyl, Het¹cycloalkyl, Het¹carbonyl, Het¹alkoxycarbonyl, Het¹alkylthiocarbonyl, Het¹oxycarbonyl, Het¹thiocarbonyl, Het¹alkanoyl, Het¹aralkanoyl, Het¹aryloxyalkyl, Het¹alkyloxyalkyl, Het¹arylthioalkyl, Het¹aryloxycarbonyl, Het¹aralkoxycarbonyl, Het¹aroyl, Het¹oxyalkylcarbonyl, Het¹alkyloxyalkylcarbonyl, Het¹aryloxyalkylcarbonyl, Het¹carbonyloxyalkyl, Het¹alkylcarbonyloxyalkyl, Het¹aralkylcarbonyloxyalkyl, Het²alkyl; Het²oxyalkyl, Het²alkyloxyalkyl, Het²aralkyl, Het²carbonyl, Het²oxycarbonyl, Het²thiocarbonyl, Het²alkanoyl, Het²alkylthiocarbonyl, Het²alkoxycarbonyl, Het²aralkanoyl, Het²aralkoxycarbonyl, Het²aryloxycarbonyl, Het²aroyl, Het²aryloxyalkyl, Het²arylthioalkyl, Het²oxyalkylcarbonyl, Het²alkyloxyalkylcarbonyl, Het²aryloxyalkylcarbonyl, Het²carbonyloxyalkyl, Het²alkylcarbonyloxyalkyl, Het²aralkylcarbonyloxyalkyl, cyano, aminocarbonyl, aminoalkanoyl, aminoalkyl, CR⁶=NR⁷ and CR⁶=N(OR⁷), with R⁶ and R⁷ being independently selected from the group consisting of hydrogen, hydroxyl, alkyl, aryl, Het¹, Het¹alkyl, Het¹aryl, alkenyl, alkynyl, aminoalkyl, aminoaryl, alkylcarbonylamino, arylcarbonylamino, alkylthiocarbonylamino and arylthiocarbonylamino;

wherein R² and R³ are independently selected from the group consisting of hydroxyl, alkyloxy, alkylsilyloxy, arylsilyloxy, alkyloxyalkyloxy, cycloalkyloxy cycloalkylalkyloxy, aralkyloxy, aryloxyalkyloxy, silyloxy, alkylcarbonyloxy, arylcarbonyloxy, cycloalkylcarbonyloxy, haloalkyloxy, hydroxyalkyloxy, aralkanoyloxy, aroyloxy, aryloxycarbonylalkyloxy, formyloxy, Het¹alkyloxy, Het¹oxy, Het¹oxyalkyloxy, Het¹aryloxy, Het¹aralkyloxy, Het¹cycloalkyloxy, Het¹carbonyloxy, Het¹oxycarbonyloxy, Het¹alkanoyloxy, Het¹aralkanoyloxy, Het¹aryloxyalkyloxy, Het¹aroyl, Het²oxy, Het²alkyloxy; Het²oxyalkyloxy, Het²aralkyloxy, Het²cycloalkyloxy, Het²alkanoyloxy, Het²aralkanoyloxy, Het²carbonyloxy, Het²aryloxy, and Het²aryloxyalkyloxy,

wherein R^1 , R^2 and R^3 are unsubstituted or substituted by one or more substituents independently selected from the group consisting of alkyl, aralkyl, aryl, Het¹, Het², cycloalkyl, alkyloxycarbonyl, carboxyl, aminocarbonyl, mono- or di(alkyl)aminocarbonyl, aminosulfonyl, alkylS(=O)_t, hydroxy, cyano, halogen and amino, unsubstituted, mono- or disubstituted wherein the substituents are independently selected from the group consisting of alkyl, aryl, aralkyl, aryloxy, arylamino, arylthio, aryloxyalkyl, arylaminoalkyl, aralkoxy, alkylthio, alkoxy, aryloxyalkoxy, arylaminoalkoxy, aralkylamino, aryloxyalkylamino, arylaminoalkylamino, arylthioalkoxy, arylthioalkylamino, aralkylthio, aryloxyalkylthio, arylaminoalkylthio, arylthioalkylthio, alkylamino, cycloalkyl, cycloalkylalkyl, Het¹, Het², Het¹alkyl, Het²alkyl, Het¹amino, Het²amino, Het¹alkylamino, Het²alkylamino, Het¹thio, Het²thio, Het¹alkylthio, Het²alkylthio, Het¹oxy and Het²oxy, OR⁸, SR⁸, SO₂NR⁸R⁹, SO₂N(OH)R⁸, CN, CR⁸=NR⁹, S(O)R⁸, SO₂R⁸, CR⁸=N(OR⁹), N₃, NO₂, NR⁸R⁹, N(OH)R⁸, C(O)R⁸, C(S)R⁸, CO₂R⁸, C(O)SR⁸, C(O)NR⁸R⁹, C(S)NR⁸R⁹, C(O)N(OH)R⁹, C(S)N(OH)R⁸, NR⁸C(O)R⁹, NR⁸C(S)R⁹, N(OH)C(O)R⁹, N(OH)C(S)R⁸, NR⁸CO₂R⁹, NR⁸C(O)NR⁹R¹⁰, NR⁸C(S)NR⁹R¹⁰, N(OH)CO₂R⁸, NR⁸C(O)SR⁹, N(OH)C(O)NR⁸R⁹, N(OH)C(S)NR⁸R⁹, NR⁸C(O)N(OH)R⁹, NR⁸C(S)N(OH)R⁹, NR⁸SO₂R⁹, NHSO₂NR⁸R⁹, NR⁸SO₂NHR⁹, and P(O)(OR⁸)(OR⁹),

with t being an integer between 1 and 2, and R⁸, R⁹ and R¹⁰ being each independently selected from the group consisting of hydrogen, hydroxyl, alkyl, aryl, Het¹, Het¹alkyl, Het¹aryl, alkenyl, alkynyl, aminoalkyl, aminoaryl, alkylcarbonylamino, arylcarbonylamino, alkylthiocarbonylamino and arylthiocarbonylamino;

wherein R⁴ is oxo and R⁵ is hydrogen or alkyl.

3. (Previously presented) A compound according to claim 1,

wherein R¹ is selected from the group consisting of hydrogen, alkyl, hydroxyalkyl, alkenyl, alkynyl, alkyloxyalkyl, alkylthioalkyl, alkyloxycarbonyl, alkanoyl, cycloalkylalkyl, cycloalkylcarbonyl, cycloalkylalkanoyl, cycloalkylalkoxycarbonyl, cycloalkylthioalkyl, alkylcarbonyloxyalkyl, arylcarbonyloxyalkyl, cycloalkylcarbonyloxyalkyl, silyloxyalkyl, aralkyl, arylalkenyl, arylcarbonyl, aryloxycarbonyl, aralkoxycarbonyl, arylthioalkyl, aralkanoyl, aroyl, carboxyl, formyl, alkenylcarbonyl, alkynylcarbonyl, Het¹oxyalkyl, Het¹alkoxycarbonyl, Het¹oxycarbonyl, Het¹aryloxyalkyl, Het¹alkyloxyalkyl, Het¹arylthioalkyl, Het¹aryloxycarbonyl,

Het¹aralkoxycarbonyl, Het¹oxyalkylcarbonyl, Het¹alkyloxyalkylcarbonyl,
 Het¹aryloxyalkylcarbonyl, Het¹carbonyloxyalkyl, Het¹alkylcarbonyloxyalkyl,
 Het¹aralkylcarbonyloxyalkyl, Het²oxyalkyl, Het²alkyloxyalkyl, Het²oxycarbonyl,
 Het²alkoxycarbonyl, Het²aralkoxycarbonyl, Het²aryloxyalkyl, Het²aryloxyalkyl,
 Het²arylthioalkyl, Het²oxyalkylcarbonyl, Het²alkyloxyalkylcarbonyl, Het²aryloxyalkylcarbonyl,
 Het²carbonyloxyalkyl, Het²alkylcarbonyloxyalkyl, Het²aralkylcarbonyloxyalkyl, CR⁶=NR⁷, and
 CR⁶=N(OR⁷),

with R⁶ and R⁷ being independently selected from the group consisting of hydrogen, hydroxyl, alkyl, aryl, Het¹, Het¹alkyl, Het¹aryl, alkenyl, alkynyl, aminoalkyl, aminoaryl, alkylcarbonylamino, arylcarbonylamino, alkylthiocarbonylamino and arylthiocarbonylamino;

wherein R² and R³ are independently selected from the group consisting of hydroxyl, alkyloxy, alkyloxyalkyloxy, cycloalkyloxy, cycloalkylalkyloxy, aralkyloxy, aryloxyalkyloxy, silyloxy, alkylcarbonyloxy, arylcarbonyloxy, cycloalkylcarbonyloxy, aryloxycarbonylalkyloxy, formyloxy, Het¹alkyloxy, Het¹oxy, Het¹oxyalkyloxy, Het¹aryloxy, Het¹aralkyloxy, Het¹cycloalkyloxy, Het¹carbonyloxy, Het¹alkanoyloxy, Het¹aralkanoyloxy, Het¹aryloxyalkyloxy, Het²oxy, Het²alkyloxy, Het²oxyalkyloxy, Het²aralkyloxy, Het²cycloalkyloxy, Het²alkanoyloxy, Het²aralkanoyloxy, Het²carbonyloxy, Het²aryloxy, and Het²aryloxyalkyloxy,

wherein R¹, R² and R³ are unsubstituted or substituted by one or more substituents independently selected from the group consisting of alkyl, aralkyl, aryl, Het¹, Het², cycloalkyl, alkyloxycarbonyl, carboxyl, aminocarbonyl, mono- or di(alkyl)aminocarbonyl, aminosulfonyl, alkylS(=O)_t, hydroxy, cyano, halogen and amino, unsubstituted, mono- or disubstituted wherein the substituents are independently selected from the group consisting of alkyl, aryl, aralkyl, aryloxy, arylamino, arylthio, aryloxyalkyl, arylaminoalkyl, aralkoxy, alkylthio, alkoxy, aryloxyalkoxy, arylaminoalkoxy, aralkylamino, aryloxyalkylamino, arylaminoalkylamino, arylthioalkoxy, arylthioalkylamino, aralkylthio, aryloxyalkylthio, arylaminoalkylthio, arylthioalkylthio, alkylamino, cycloalkyl, cycloalkylalkyl, Het¹, Het², Het¹alkyl, Het²alkyl, Het¹amino, Het²amino, Het¹alkylamino, Het²alkylamino, Het¹thio, Het²thio, Het¹alkylthio, Het²alkylthio, Het¹oxy and Het²oxy, OR⁸, SR⁸, SO₂NR⁸R⁹, SO₂N(OH)R⁸, CN, CR⁸=NR⁹, S(O)R⁸, SO₂R⁸, CR⁸=N(OR⁹), N₃, NO₂, NR⁸R⁹, N(OH)R⁸, C(O)R⁸, C(S)R⁸, CO₂R⁸, C(O)SR⁸, C(O)NR⁸R⁹, C(S)NR⁸R⁹, C(O)N(OH)R⁹, C(S)N(OH)R⁸, NR⁸C(O)R⁹, NR⁸C(S)R⁹,

Appl. No. : 10/530,904
Filed : December 23, 2005

N(OH)C(O)R^9 , N(OH)C(S)R^8 , $\text{NR}^8\text{CO}_2\text{R}^9$, $\text{NR}^8\text{C(O)NR}^9\text{R}^{10}$, $\text{NR}^8\text{C(S)NR}^9\text{R}^{10}$, $\text{N(OH)CO}_2\text{R}^8$, $\text{NR}^8\text{C(O)SR}^9$, $\text{N(OH)C(O)NR}^8\text{R}^9$, $\text{N(OH)C(S)NR}^8\text{R}^9$, $\text{NR}^8\text{C(O)N(OH)R}^9$, $\text{NR}^8\text{C(S)N(OH)R}^9$, $\text{NR}^8\text{SO}_2\text{R}^9$, $\text{NHSO}_2\text{NR}^8\text{R}^9$, $\text{NR}^8\text{SO}_2\text{NHR}^9$, and $\text{P(O)(OR}^8\text{)(OR}^9\text{)}$,

with t being an integer between 1 and 2, and R^8 , R^9 and R^{10} being each independently selected from the group consisting of hydrogen, hydroxyl, alkyl, aryl, Het^1 , Het^1alkyl , Het^1aryl , alkenyl, alkynyl, aminoalkyl, aminoaryl, alkylcarbonylamino, arylcarbonylamino, alkylthiocarbonylamino and arylthiocarbonylamino; and

wherein R^4 is selected from the group consisting of, oxo, hydroxyalkyl, alkyl, alkenyl, alkylcarbonylalkyl, arylcarbonylalkyl and R^5 is hydrogen, oxo, hydroxyl, hydroxyalkyl, alkyl, alkenyl, alkylcarbonylalkyl, arylcarbonylalkyl.

4. (Previously presented) A compound according to claim 1 or 2,

wherein R^1 is selected from the group consisting of alkyl, alkenyl, alkynyl, alkyloxyalkyl, alkylthioalkyl, alkyloxycarbonyl, alkanoyl, cycloalkylalkyl, cycloalkylcarbonyl, cycloalkylalkanoyl, cycloalkylalkoxycarbonyl, cycloalkylthioalkyl, alkylcarbonyloxyalkyl, arylcarbonyloxyalkyl, cycloalkylcarbonyloxyalkyl, silyloxyalkyl, aralkyl, arylalkenyl, arylcarbonyl, aryloxycarbonyl, aralkoxycarbonyl, arylthioalkyl, aralkanoyl, aroyl, carboxyl, formyl, alkenylcarbonyl, alkynylcarbonyl, $\text{Het}^1\text{oxyalkyl}$, $\text{Het}^1\text{alkoxycarbonyl}$, $\text{Het}^1\text{oxycarbonyl}$, $\text{Het}^1\text{aryloxyalkyl}$, $\text{Het}^1\text{alkyloxyalkyl}$, $\text{Het}^1\text{arylthioalkyl}$, $\text{Het}^1\text{aryloxycarbonyl}$, $\text{Het}^1\text{aralkoxycarbonyl}$, $\text{Het}^1\text{oxyalkylcarbonyl}$, $\text{Het}^1\text{alkyloxyalkylcarbonyl}$, $\text{Het}^1\text{aryloxyalkylcarbonyl}$, $\text{Het}^1\text{carbonyloxyalkyl}$, $\text{Het}^1\text{alkylcarbonyloxyalkyl}$, $\text{Het}^1\text{aralkylcarbonyloxyalkyl}$, $\text{Het}^2\text{oxyalkyl}$, $\text{Het}^2\text{alkyloxyalkyl}$, $\text{Het}^2\text{oxycarbonyl}$, $\text{Het}^2\text{alkoxycarbonyl}$, $\text{Het}^2\text{aralkoxycarbonyl}$, $\text{Het}^2\text{aryloxycarbonyl}$, $\text{Het}^2\text{aryloxyalkyl}$, $\text{Het}^2\text{arylthioalkyl}$, $\text{Het}^2\text{oxyalkylcarbonyl}$, $\text{Het}^2\text{alkyloxyalkylcarbonyl}$, $\text{Het}^2\text{aryloxyalkylcarbonyl}$, $\text{Het}^2\text{carbonyloxyalkyl}$, $\text{Het}^2\text{alkylcarbonyloxyalkyl}$, $\text{Het}^2\text{aralkylcarbonyloxyalkyl}$, $\text{CR}^6=\text{NR}^7$, and $\text{CR}^6=\text{N(OR}^7\text{)}$,

with R^6 and R^7 being independently selected from the group consisting of hydrogen, hydroxyl, alkyl, aryl, Het^1 , Het^1alkyl , Het^1aryl , alkenyl, alkynyl, aminoalkyl, aminoaryl, alkylcarbonylamino, arylcarbonylamino, alkylthiocarbonylamino and arylthiocarbonylamino;

wherein R^2 and R^3 are independently selected from the group consisting of hydroxyl, alkyloxy, alkyloxyalkyloxy, cycloalkyloxy cycloalkylalkyloxy, aralkyloxy, aryloxyalkyloxy, silyloxy, alkylcarbonyloxy, arylcarbonyloxy, cycloalkylcarbonyloxy, aryloxyalkylalkyloxy, formyloxy, Het¹alkyloxy, Het¹oxy, Het¹oxyalkyloxy, Het¹aryloxy, Het¹aralkyloxy, Het¹cycloalkyloxy, Het¹carbonyloxy, Het¹alkanoyloxy, Het¹aralkanoyloxy, Het¹aryloxyalkyloxy, Het²oxy, Het²alkyloxy; Het²oxyalkyloxy, Het²aralkyloxy, Het²cycloalkyloxy, Het²alkanoyloxy, Het²aralkanoyloxy, Het²carbonyloxy, Het²aryloxy, and Het²aryloxyalkyloxy,

wherein R^1 , R^2 and R^3 are unsubstituted or substituted by one or more substituents independently selected from the group consisting of alkyl, aralkyl, aryl, Het¹, Het², cycloalkyl, alkyloxy, carbonyl, aminocarbonyl, mono- or di(alkyl)aminocarbonyl, aminosulfonyl, alkylS(=O)_t, hydroxy, cyano, halogen and amino, unsubstituted, mono- or disubstituted wherein the substituents are independently selected from the group consisting of alkyl, aryl, aralkyl, aryloxy, arylamino, arylthio, aryloxyalkyl, arylaminoalkyl, aralkoxy, alkylthio, alkoxy, aryloxyalkoxy, arylaminoalkoxy, aralkylamino, aryloxyalkylamino, arylaminoalkylamino, arylthioalkoxy, arylthioalkylamino, aralkylthio, aryloxyalkylthio, arylaminoalkylthio, arylthioalkylthio, alkylamino, cycloalkyl, cycloalkylalkyl, Het¹, Het², Het¹alkyl, Het²alkyl, Het¹amino, Het²amino, Het¹alkylamino, Het²alkylamino, Het¹thio, Het²thio, Het¹alkylthio, Het²alkylthio, Het¹oxy and Het²oxy, OR^8 , SR^8 , $SO_2NR^8R^9$, $SO_2N(OH)R^8$, CN , $CR^8=NR^9$, $S(O)R^8$, SO_2R^8 , $CR^8=N(OR^9)$, N_3 , NO_2 , NR^8R^9 , $N(OH)R^8$, $C(O)R^8$, $C(S)R^8$, CO_2R^8 , $C(O)SR^8$, $C(O)NR^8R^9$, $C(S)NR^8R^9$, $C(O)N(OH)R^9$, $C(S)N(OH)R^8$, $NR^8C(O)R^9$, $NR^8C(S)R^9$, $N(OH)C(O)R^9$, $N(OH)C(S)R^8$, $NR^8CO_2R^9$, $NR^8C(O)NR^9R^{10}$, $NR^8C(S)NR^9R^{10}$, $N(OH)CO_2R^8$, $NR^8C(O)SR^9$, $N(OH)C(O)NR^8R^9$, $N(OH)C(S)NR^8R^9$, $NR^8C(O)N(OH)R^9$, $NR^8C(S)N(OH)R^9$, $NR^8SO_2R^9$, $NHSO_2NR^8R^9$, $NR^8SO_2NHR^9$, and $P(O)(OR^8)(OR^9)$,

with t being an integer between 1 and 2, and R^8 , R^9 and R^{10} being each independently selected from the group consisting of hydrogen, hydroxyl, alkyl, aryl, Het¹, Het¹alkyl, Het¹aryl, alkenyl, alkynyl, aminoalkyl, aminoaryl, alkylcarbonylamino, arylcarbonylamino, alkylthiocarbonylamino and arylthiocarbonylamino;; and

wherein R^4 is oxo and R^5 is hydrogen or alkyl.

5. (Previously presented) A compound according to claim 1 or 2,

wherein R^1 is selected from the group consisting of alkyl, alkenyl, alkynyl, alkyloxyalkyl, alkylthioalkyl, alkanoyl, cycloalkylalkyl, cycloalkylcarbonyl, cycloalkylalkanoyl, cycloalkylthioalkyl, silyloxyalkyl, aralkyl, arylalkenyl, arylcarbonyl, arylthioalkyl, aralkanoyl, aroyl, carboxyl, formyl, alkenylcarbonyl, alkynylcarbonyl, Het¹oxyalkyl, Het¹aryloxyalkyl, Het¹alkyloxyalkyl, Het¹arylthioalkyl, Het¹oxyalkylcarbonyl, Het¹alkyloxyalkylcarbonyl, Het¹aryloxyalkylcarbonyl, Het²oxyalkyl, Het²alkyloxyalkyl, Het²aryloxyalkyl, Het²arylthioalkyl, Het²oxyalkylcarbonyl, Het²alkyloxyalkylcarbonyl, Het²aryloxyalkylcarbonyl, $CR^6=NR^7$, and $CR^6=N(OR^7)$,

with R^6 and R^7 being independently selected from the group consisting of hydrogen, hydroxyl, alkyl, aryl, Het¹, Het¹alkyl, Het¹aryl, alkenyl, alkynyl, aminoalkyl, aminoaryl, alkylcarbonylamino, arylcarbonylamino, alkylthiocarbonylamino and arylthiocarbonylamino;

wherein R^2 and R^3 are independently selected from the group consisting of hydroxyl, alkylcarbonyloxy, arylcarbonyloxy, cycloalkylcarbonyloxy, formyloxy, Het¹carbonyloxy, Het¹alkanoyloxy, Het¹aralkanoyloxy, Het²carbonyloxy, Het²alkanoyloxy, and Het²aralkanoyloxy,

wherein R^1 , R^2 and R^3 are unsubstituted or substituted by one or more substituents independently selected from the group consisting of alkyl, aralkyl, aryl, Het¹, Het², cycloalkyl, alkyloxycarbonyl, carboxyl, aminocarbonyl, mono- or di(alkyl)aminocarbonyl, aminosulfonyl, alkylS(=O)_t, hydroxy, cyano, halogen and amino, unsubstituted, mono- or disubstituted wherein the substituents are independently selected from the group consisting of alkyl, aryl, aralkyl, aryloxy, arylamino, arylthio, aryloxyalkyl, arylaminoalkyl, aralkoxy, alkylthio, alkoxy, aryloxyalkoxy, arylaminoalkoxy, aralkylamino, aryloxyalkylamino, arylaminoalkylamino, arylthioalkoxy, arylthioalkylamino, aralkylthio, aryloxyalkylthio, arylaminoalkylthio, arylthioalkylthio, alkylamino, cycloalkyl, cycloalkylalkyl, Het¹, Het², Het¹alkyl, Het²alkyl, Het¹amino, Het²amino, Het¹alkylamino, Het²alkylamino, Het¹thio, Het²thio, Het¹alkylthio, Het²alkylthio, Het¹oxy and Het²oxy, OR^8 , SR^8 , $SO_2NR^8R^9$, $SO_2N(OH)R^8$, CN, $CR^8=NR^9$, $S(O)R^8$, SO_2R^8 , $CR^8=N(OR^9)$, N_3 , NO_2 , NR^8R^9 , $N(OH)R^8$, $C(O)R^8$, $C(S)R^8$, CO_2R^8 , $C(O)SR^8$, $C(O)NR^8R^9$, $C(S)NR^8R^9$, $C(O)N(OH)R^9$, $C(S)N(OH)R^8$, $NR^8C(O)R^9$, $NR^8C(S)R^9$, $N(OH)C(O)R^9$, $N(OH)C(S)R^8$, $NR^8CO_2R^9$, $NR^8C(O)NR^9R^{10}$, $NR^8C(S)NR^9R^{10}$, $N(OH)CO_2R^8$,

$\text{NR}^8\text{C}(\text{O})\text{SR}^9$, $\text{N}(\text{OH})\text{C}(\text{O})\text{NR}^8\text{R}^9$, $\text{N}(\text{OH})\text{C}(\text{S})\text{NR}^8\text{R}^9$, $\text{NR}^8\text{C}(\text{O})\text{N}(\text{OH})\text{R}^9$, $\text{NR}^8\text{C}(\text{S})\text{N}(\text{OH})\text{R}^9$, $\text{NR}^8\text{SO}_2\text{R}^9$, $\text{NHSO}_2\text{NR}^8\text{R}^9$, $\text{NR}^8\text{SO}_2\text{NHR}^9$, and $\text{P}(\text{O})(\text{OR}^8)(\text{OR}^9)$,

with t being an integer between 1 and 2, and R^8 , R^9 and R^{10} being each independently selected from the group consisting of hydrogen, hydroxyl, alkyl, aryl, Het¹, Het¹alkyl, Het¹aryl, alkenyl, alkynyl, aminoalkyl, aminoaryl, alkylcarbonylamino, arylcarbonylamino, alkylthiocarbonylamino and arylthiocarbonylamino;; and

wherein R^4 is oxo and R^5 is hydrogen or alkyl.

6. (Previously presented) A compound according to claims 1 or 2 wherein R^1 is selected from the group consisting of alkyl, alkenyl, alkynyl, alkyloxyalkyl, alkylthioalkyl, cycloalkylalkyl, cycloalkylthioalkyl, silyloxyalkyl, aralkyl, arylalkenyl, arylthioalkyl, carboxyl, formyl, Het¹oxyalkyl, Het¹aryloxyalkyl, Het¹alkyloxyalkyl, Het¹arylthioalkyl, Het²oxyalkyl, Het²alkyloxyalkyl, Het²aryloxyalkyl, and Het²arylthioalkyl, unsubstituted or substituted by one or more substituents independently selected from the group consisting of alkyl, aralkyl, aryl, Het¹, Het², cycloalkyl, alkyloxycarbonyl, carboxyl, aminocarbonyl, mono- or di(alkyl)aminocarbonyl, aminosulfonyl, alkylS(=O)_t, hydroxy, cyano, halogen and amino, unsubstituted, mono- or disubstituted wherein the substituents are independently selected from the group consisting of alkyl, aryl, aralkyl, aryloxy, arylamino, arylthio, aryloxyalkyl, arylaminoalkyl, aralkoxy, alkylthio, alkoxy, aryloxyalkoxy, arylaminoalkoxy, aralkylamino, aryloxyalkylamino, arylaminoalkylamino, arylthioalkoxy, arylthioalkylamino, aralkylthio, aryloxyalkylthio, arylaminoalkylthio, arylthioalkylthio, alkylamino, cycloalkyl, cycloalkylalkyl, Het¹, Het², Het¹alkyl, Het²alkyl, Het¹amino, Het²amino, Het¹alkylamino, Het²alkylamino, Het¹thio, Het²thio, Het¹alkylthio, Het²alkylthio, Het¹oxy and Het²oxy, OR^8 , SR^8 , $\text{SO}_2\text{NR}^8\text{R}^9$, $\text{SO}_2\text{N}(\text{OH})\text{R}^8$, CN , $\text{CR}^8=\text{NR}^9$, $\text{S}(\text{O})\text{R}^8$, SO_2R^8 , $\text{CR}^8=\text{N}(\text{OR}^9)$, N_3 , NO_2 , NR^8R^9 , $\text{N}(\text{OH})\text{R}^8$, $\text{C}(\text{O})\text{R}^8$, $\text{C}(\text{S})\text{R}^8$, CO_2R^8 , $\text{C}(\text{O})\text{SR}^8$, $\text{C}(\text{O})\text{NR}^8\text{R}^9$, $\text{C}(\text{S})\text{NR}^8\text{R}^9$, $\text{C}(\text{O})\text{N}(\text{OH})\text{R}^9$, $\text{C}(\text{S})\text{N}(\text{OH})\text{R}^8$, $\text{NR}^8\text{C}(\text{O})\text{R}^9$, $\text{NR}^8\text{C}(\text{S})\text{R}^9$, $\text{N}(\text{OH})\text{C}(\text{O})\text{R}^9$, $\text{N}(\text{OH})\text{C}(\text{S})\text{R}^8$, $\text{NR}^8\text{CO}_2\text{R}^9$, $\text{NR}^8\text{C}(\text{O})\text{NR}^9\text{R}^{10}$, $\text{NR}^8\text{C}(\text{S})\text{NR}^9\text{R}^{10}$, $\text{N}(\text{OH})\text{CO}_2\text{R}^8$, $\text{NR}^8\text{C}(\text{O})\text{SR}^9$, $\text{N}(\text{OH})\text{C}(\text{O})\text{NR}^8\text{R}^9$, $\text{N}(\text{OH})\text{C}(\text{S})\text{NR}^8\text{R}^9$, $\text{NR}^8\text{C}(\text{O})\text{N}(\text{OH})\text{R}^9$, $\text{NR}^8\text{C}(\text{S})\text{N}(\text{OH})\text{R}^9$, $\text{NR}^8\text{SO}_2\text{R}^9$, $\text{NHSO}_2\text{NR}^8\text{R}^9$, $\text{NR}^8\text{SO}_2\text{NHR}^9$, and $\text{P}(\text{O})(\text{OR}^8)(\text{OR}^9)$,

with t being an integer between 1 and 2, and R^8 , R^9 and R^{10} being each independently selected from the group consisting of hydrogen, hydroxyl, alkyl, aryl, Het¹, Het¹alkyl, Het¹aryl, alkenyl,

alkynyl, aminoalkyl, aminoaryl, alkylcarbonylamino, arylcarbonylamino, alkylthiocarbonylamino and arylthiocarbonylamino; wherein R^2 and R^3 are hydroxyl and wherein R^4 is oxo and R^5 is hydrogen.

7. (Previously presented) A compound according to claims 1 or 2, wherein R^1 is selected from the group consisting of alkyl, alkenyl, alkynyl, alkyloxyalkyl, cycloalkylalkyl, silyloxyalkyl, aralkyl, arylalkenyl, carboxyl, formyl, Het^1 oxyalkyl, Het^1 aryloxyalkyl, Het^1 alkyloxyalkyl, Het^2 oxyalkyl, Het^2 alkyloxyalkyl, and Het^2 aryloxyalkyl, unsubstituted or substituted by one or more substituents independently selected from the group consisting of alkyl, aralkyl, aryl, Het^1 , Het^2 , cycloalkyl, alkyloxycarbonyl, carboxyl, aminocarbonyl, mono- or di(alkyl)aminocarbonyl, aminosulfonyl, alkylS(=O)_t, hydroxy, cyano, halogen and amino, unsubstituted, mono- or disubstituted wherein the substituents are independently selected from the group consisting of alkyl, aryl, aralkyl, aryloxy, arylamino, arylthio, aryloxyalkyl, arylaminoalkyl, aralkoxy, alkylthio, alkoxy, aryloxyalkoxy, arylaminoalkoxy, aralkylamino, aryloxyalkylamino, arylaminoalkylamino, arylthioalkoxy, arylthioalkylamino, aralkylthio, aryloxyalkylthio, arylaminoalkylthio, arylthioalkylthio, alkylamino, cycloalkyl, cycloalkylalkyl, Het^1 , Het^2 , Het^1 alkyl, Het^2 alkyl, Het^1 amino, Het^2 amino, Het^1 alkylamino, Het^2 alkylamino, Het^1 thio, Het^2 thio, Het^1 alkylthio, Het^2 alkylthio, Het^1 oxy and Het^2 oxy, OR^8 , SR^8 , $SO_2NR^8R^9$, $SO_2N(OH)R^8$, CN, $CR^8=NR^9$, $S(O)R^8$, SO_2R^8 , $CR^8=N(OR^9)$, N_3 , NO_2 , NR^8R^9 , $N(OH)R^8$, $C(O)R^8$, $C(S)R^8$, CO_2R^8 , $C(O)SR^8$, $C(O)NR^8R^9$, $C(S)NR^8R^9$, $C(O)N(OH)R^9$, $C(S)N(OH)R^8$, $NR^8C(O)R^9$, $NR^8C(S)R^9$, $N(OH)C(O)R^9$, $N(OH)C(S)R^8$, $NR^8CO_2R^9$, $NR^8C(O)NR^9R^{10}$, $NR^8C(S)NR^9R^{10}$, $N(OH)CO_2R^8$, $NR^8C(O)SR^9$, $N(OH)C(O)NR^8R^9$, $N(OH)C(S)NR^8R^9$, $NR^8C(O)N(OH)R^9$, $NR^8C(S)N(OH)R^9$, $NR^8SO_2R^9$, $NHSO_2NR^8R^9$, $NR^8SO_2NHR^9$, and $P(O)(OR^8)(OR^9)$,

with t being an integer between 1 and 2, and R^8 , R^9 and R^{10} being each independently selected from the group consisting of hydrogen, hydroxyl, alkyl, aryl, Het^1 , Het^1 alkyl, Het^1 aryl, alkenyl, alkynyl, aminoalkyl, aminoaryl, alkylcarbonylamino, arylcarbonylamino, alkylthiocarbonylamino and arylthiocarbonylamino; wherein R^2 and R^3 are hydroxyl, R^4 is oxo and R^5 is hydrogen.

8. (Previously presented) A compound according to claims 1 or 2, wherein R^1 is selected from the group consisting of alkyl, carboxyl, formyl; wherein R^2 and R^3 are hydroxyl, and wherein R^4 is oxo and R^5 is hydrogen.

9. (Original) A compound according to claim 8, wherein R^1 is formyl, R^2 and R^3 are hydroxyl R^4 is oxo and R^5 is hydrogen.

10. (Previously presented) A compound according to claim 1 or 3, wherein R^1 is selected from the group consisting of hydrogen, alkyl, alkenyl, alkynyl, alkyloxyalkyl, hydroxyalkyl, alkylthioalkyl, alkanoyl, cycloalkylalkyl, cycloalkylcarbonyl, cycloalkylalkanoyl, cycloalkylthioalkyl, silyloxyalkyl, aralkyl, arylalkenyl, arylcarbonyl, arylthioalkyl, aralkanoyl, aroyl, carboxyl, formyl, alkenylcarbonyl, alkynylcarbonyl, Het¹oxyalkyl, Het¹aryloxyalkyl, Het¹alkyloxyalkyl, Het¹arylthioalkyl, Het¹oxyalkylcarbonyl, Het¹alkyloxyalkylcarbonyl, Het¹aryloxyalkylcarbonyl, Het²oxyalkyl, Het²alkyloxyalkyl, Het²aryloxyalkyl, Het²arylthioalkyl, Het²oxyalkylcarbonyl, Het²alkyloxyalkylcarbonyl, Het²aryloxyalkylcarbonyl, $CR^6=NR^7$, and $CR^6=N(OR^7)$, with R^6 and R^7 being independently selected from the group consisting of hydrogen, hydroxyl, alkyl, aryl, Het¹, Het¹alkyl, Het¹aryl, alkenyl, alkynyl, aminoalkyl, aminoaryl, alkylcarbonylamino, arylcarbonylamino, alkylthiocarbonylamino and arylthiocarbonylamino; wherein R^2 and R^3 are independently selected from the group consisting of hydroxyl, alkylcarbonyloxy, arylcarbonyloxy, cycloalkylcarbonyloxy, formyloxy, Het¹carbonyloxy, Het¹alkanoyloxy, Het¹aralkanoyloxy, Het²carbonyloxy, Het²alkanoyloxy, and Het²aralkanoyloxy, wherein R^1 , R^2 and R^3 are unsubstituted or substituted by one or more substituents independently selected from the group consisting of alkyl, aralkyl, aryl, Het¹, Het², cycloalkyl, alkyloxycarbonyl, carboxyl, aminocarbonyl, mono- or di(alkyl)aminocarbonyl, aminosulfonyl, alkylS(=O)_t, hydroxy, cyano, halogen and amino, unsubstituted, mono- or disubstituted wherein the substituents are independently selected from the group consisting of alkyl, aryl, aralkyl, aryloxy, arylamino, arylthio, aryloxyalkyl, arylaminoalkyl, aralkoxy, alkylthio, alkoxy, aryloxyalkoxy, arylaminoalkoxy, aralkylamino, aryloxyalkylamino, arylaminoalkylamino, arylthioalkoxy, arylthioalkylamino, aralkylthio, aryloxyalkylthio, arylaminoalkylthio, arylthioalkylthio, alkylamino, cycloalkyl, cycloalkylalkyl, Het¹, Het², Het¹alkyl, Het²alkyl, Het¹amino, Het²amino, Het¹alkylamino, Het²alkylamino, Het¹thio, Het²thio, Het¹alkylthio,

Het²alkylthio, Het¹oxy and Het²oxy, OR⁸, SR⁸, SO₂NR⁸R⁹, SO₂N(OH)R⁸, CN, CR⁸=NR⁹, S(O)R⁸, SO₂R⁸, CR⁸=N(OR⁹), N₃, NO₂, NR⁸R⁹, N(OH)R⁸, C(O)R⁸, C(S)R⁸, CO₂R⁸, C(O)SR⁸, C(O)NR⁸R⁹, C(S)NR⁸R⁹, C(O)N(OH)R⁹, C(S)N(OH)R⁸, NR⁸C(O)R⁹, NR⁸C(S)R⁹, N(OH)C(O)R⁹, N(OH)C(S)R⁸, NR⁸CO₂R⁹, NR⁸C(O)NR⁹R¹⁰, NR⁸C(S)NR⁹R¹⁰, N(OH)CO₂R⁸, NR⁸C(O)SR⁹, N(OH)C(O)NR⁸R⁹, N(OH)C(S)NR⁸R⁹, NR⁸C(O)N(OH)R⁹, NR⁸C(S)N(OH)R⁹, NR⁸SO₂R⁹, NHSO₂NR⁸R⁹, NR⁸SO₂NHR⁹, and P(O)(OR⁸)(OR⁹),

with t being an integer between 1 and 2, and R⁸, R⁹ and R¹⁰ being each independently selected from the group consisting of hydrogen, hydroxyl, alkyl, aryl, Het¹, Het¹alkyl, Het¹aryl, alkenyl, alkynyl, aminoalkyl, aminoaryl, alkylcarbonylamino, arylcarbonylamino, alkylthiocarbonylamino and arylthiocarbonylamino;; and

wherein R⁴ is oxo, hydroxyalkyl, alkyl, alkenyl, arylcarbonylaryl, or alkylcarbonylalkyl and R⁵ is hydrogen or alkyl.

11. (Previously presented) A compound according to claim 1 or 3, wherein R¹ is hydroxyalkyl, R² and R³ are hydroxyl, R⁴ is oxo and R⁵ is hydrogen.

12. (Previously presented) A compound according to claim 1 or 3, wherein R¹ is selected from the group consisting of hydrogen, alkyl, alkenyl, alkynyl, hydroxyalkyl, alkyloxyalkyl, alkylthioalkyl, cycloalkylalkyl, cycloalkylthioalkyl, silyloxyalkyl, aralkyl, arylalkenyl, arylthioalkyl, carboxyl, formyl, Het¹oxyalkyl, Het¹aryloxyalkyl, Het¹alkyloxyalkyl, Het¹arylthioalkyl, Het²oxyalkyl, Het²alkyloxyalkyl, Het²aryloxyalkyl, and Het²arylthioalkyl, unsubstituted or substituted by one or more substituents independently selected from the group consisting of alkyl, aralkyl, aryl, Het¹, Het², cycloalkyl, alkyloxycarbonyl, carboxyl, aminocarbonyl, mono- or di(alkyl)aminocarbonyl, aminosulfonyl, alkylS(=O)_t, hydroxy, cyano, halogen and amino, unsubstituted, mono- or disubstituted wherein the substituents are independently selected from the group consisting of alkyl, aryl, aralkyl, aryloxy, arylamino, arylthio, aryloxyalkyl, arylaminoalkyl, aralkoxy, alkylthio, alkoxy, aryloxyalkoxy, arylaminoalkoxy, aralkylamino, aryloxyalkylamino, arylaminoalkylamino, arylthioalkoxy, arylthioalkylamino, aralkylthio, aryloxyalkylthio, arylaminoalkylthio, arylthioalkylthio, alkylamino, cycloalkyl, cycloalkylalkyl, Het¹, Het², Het¹alkyl, Het²alkyl, Het¹amino, Het²amino,

Het¹alkylamino, Het²alkylamino, Het¹thio, Het²thio, Het¹alkylthio, Het²alkylthio, Het¹oxy and Het²oxy, OR⁸, SR⁸, SO₂NR⁸R⁹, SO₂N(OH)R⁸, CN, CR⁸=NR⁹, S(O)R⁸, SO₂R⁸, CR⁸=N(OR⁹), N₃, NO₂, NR⁸R⁹, N(OH)R⁸, C(O)R⁸, C(S)R⁸, CO₂R⁸, C(O)SR⁸, C(O)NR⁸R⁹, C(S)NR⁸R⁹, C(O)N(OH)R⁹, C(S)N(OH)R⁸, NR⁸C(O)R⁹, NR⁸C(S)R⁹, N(OH)C(O)R⁹, N(OH)C(S)R⁸, NR⁸CO₂R⁹, NR⁸C(O)NR⁹R¹⁰, NR⁸C(S)NR⁹R¹⁰, N(OH)CO₂R⁸, NR⁸C(O)SR⁹, N(OH)C(O)NR⁸R⁹, N(OH)C(S)NR⁸R⁹, NR⁸C(O)N(OH)R⁹, NR⁸C(S)N(OH)R⁹, NR⁸SO₂R⁹, NHSO₂NR⁸R⁹, NR⁸SO₂NHR⁹, and P(O)(OR⁸)(OR⁹),

with t being an integer between 1 and 2, and R⁸ R⁹ and R¹⁰ being each independently selected from the group consisting of hydrogen, hydroxyl, alkyl, aryl, Het¹, Het¹alkyl, Het¹aryl, alkenyl, alkynyl, aminoalkyl, aminoaryl, alkylcarbonylamino, arylcarbonylamino, alkylthiocarbonylamino and arylthiocarbonylamino; wherein R² and R³ are hydroxyl and wherein R⁴ is hydroxyalkyl, arylcarbonylalkyl, or alkylcarbonylalkyl and R⁵ is hydrogen.

13. (Previously presented) A compound according to claim 1 or 3, wherein R¹ is selected from the group consisting of hydrogen, alkyl, alkenyl, alkynyl, hydroxyalkyl, alkyloxyalkyl, cycloalkylalkyl, silyloxyalkyl, aralkyl, arylalkenyl, carboxyl, formyl, Het¹oxyalkyl, Het¹aryloxyalkyl, Het¹alkyloxyalkyl, Het²oxyalkyl, Het²alkyloxyalkyl, and Het²aryloxyalkyl, unsubstituted or substituted by one or more substituents independently selected from the group consisting of alkyl, aralkyl, aryl, Het¹, Het², cycloalkyl, alkyloxycarbonyl, carboxyl, aminocarbonyl, mono- or di(alkyl)aminocarbonyl, aminosulfonyl, alkylS(=O)_t, hydroxy, cyano, halogen and amino, unsubstituted, mono- or disubstituted wherein the substituents are independently selected from the group consisting of alkyl, aryl, aralkyl, aryloxy, arylamino, arylthio, aryloxyalkyl, arylaminoalkyl, aralkoxy, alkylthio, alkoxy, aryloxyalkoxy, arylaminoalkoxy, aralkylamino, aryloxyalkylamino, arylaminoalkylamino, arylthioalkoxy, arylthioalkylamino, aralkylthio, aryloxyalkylthio, arylaminoalkylthio, arylthioalkylthio, alkylamino, cycloalkyl, cycloalkylalkyl, Het¹, Het², Het¹alkyl, Het²alkyl, Het¹amino, Het²amino, Het¹alkylamino, Het²alkylamino, Het¹thio, Het²thio, Het¹alkylthio, Het²alkylthio, Het¹oxy and Het²oxy, OR⁸, SR⁸, SO₂NR⁸R⁹, SO₂N(OH)R⁸, CN, CR⁸=NR⁹, S(O)R⁸, SO₂R⁸, CR⁸=N(OR⁹), N₃, NO₂, NR⁸R⁹, N(OH)R⁸, C(O)R⁸, C(S)R⁸, CO₂R⁸, C(O)SR⁸, C(O)NR⁸R⁹, C(S)NR⁸R⁹, C(O)N(OH)R⁹, C(S)N(OH)R⁸, NR⁸C(O)R⁹, NR⁸C(S)R⁹, N(OH)C(O)R⁹, N(OH)C(S)R⁸,

$\text{NR}^8\text{CO}_2\text{R}^9$, $\text{NR}^8\text{C}(\text{O})\text{NR}^9\text{R}^{10}$, $\text{NR}^8\text{C}(\text{S})\text{NR}^9\text{R}^{10}$, $\text{N}(\text{OH})\text{CO}_2\text{R}^8$, $\text{NR}^8\text{C}(\text{O})\text{SR}^9$,
 $\text{N}(\text{OH})\text{C}(\text{O})\text{NR}^8\text{R}^9$, $\text{N}(\text{OH})\text{C}(\text{S})\text{NR}^8\text{R}^9$, $\text{NR}^8\text{C}(\text{O})\text{N}(\text{OH})\text{R}^9$, $\text{NR}^8\text{C}(\text{S})\text{N}(\text{OH})\text{R}^9$, $\text{NR}^8\text{SO}_2\text{R}^9$,
 $\text{NHSO}_2\text{NR}^8\text{R}^9$, $\text{NR}^8\text{SO}_2\text{NHR}^9$, and $\text{P}(\text{O})(\text{OR}^8)(\text{OR}^9)$,

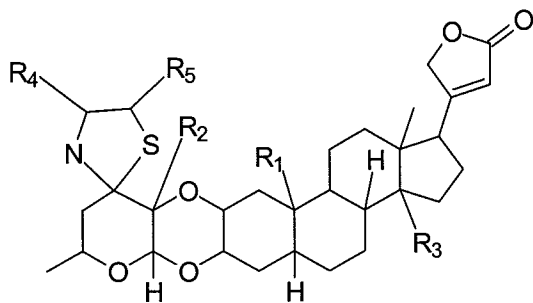
with t being an integer between 1 and 2, and R^8 , R^9 and R^{10} being each independently selected from the group consisting of hydrogen, hydroxyl, alkyl, aryl, Het^1 , Het^1alkyl , Het^1aryl , alkenyl, alkynyl, aminoalkyl, aminoaryl, alkylcarbonylamino, arylcarbonylamino, alkylthiocarbonylamino and arylthiocarbonylamino; wherein R^2 and R^3 are hydroxyl, R^4 is hydroxyalkyl, arylcarbonylalkyl, or alkylcarbonylalkyl and R^5 is hydrogen.

14. (Previously presented) A compound according to claim 1 or 3, wherein R^1 is selected from the group consisting of alkyl, hydroxyalkyl, carboxyl, and formyl; wherein R^2 and R^3 are hydroxyl, and wherein R^4 is arylcarbonylalkyl and R^5 is hydrogen.

15. (Original) A compound according to claim 14, wherein R^1 is hydroxyalkyl, R^2 and R^3 are hydroxyl, R^4 is arylcarbonylalkyl and R^5 is hydrogen.

16. (Original) A compound according to claim 15, wherein R^1 is hydroxymethylene, R^2 and R^3 are hydroxyl, R^4 is phenylcarbonylmethylene and R^5 is hydrogen.

17. (Previously presented) A compound having the formula Ia or a pharmaceutically acceptable salt or ester thereof,
 formula Ia



wherein R^1 is selected from the group consisting of alkyl, alkenyl, alkynyl, alkyloxyalkyl, alkylthioalkyl, alkyloxycarbonyl, alkanoyl, cycloalkylalkyl, cycloalkylcarbonyl,

cycloalkylalkanoyl, cycloalkylalkoxycarbonyl, cycloalkylthioalkyl, alkylcarbonyloxyalkyl, arylcarbonyloxyalkyl, cycloalkylcarbonyloxyalkyl, silyloxyalkyl, aralkyl, arylalkenyl, arylcarbonyl, aryloxycarbonyl, aralkoxycarbonyl, arylthioalkyl, aralkanoyl, aroyl, silyloxyalkyl, carboxyl, alkenylcarbonyl, alkynylcarbonyl, Het¹oxyalkyl, Het¹alkoxycarbonyl, Het¹oxycarbonyl, Het¹aryloxyalkyl, Het¹alkyloxyalkyl, Het¹arylthioalkyl, Het¹aryloxycarbonyl, Het¹aralkoxycarbonyl, Het¹oxyalkylcarbonyl, Het¹alkyloxyalkylcarbonyl, Het¹aryloxyalkylcarbonyl, Het¹carbonyloxyalkyl, Het¹alkylcarbonyloxyalkyl, Het¹aralkylcarbonyloxyalkyl, Het²oxyalkyl, Het²alkyloxyalkyl, Het²oxycarbonyl, Het²alkoxycarbonyl, Het²aralkoxycarbonyl, Het²aryloxycarbonyl, Het²aryloxyalkyl, Het²arylthioalkyl, Het²oxyalkylcarbonyl, Het²alkyloxyalkylcarbonyl, Het²aryloxyalkylcarbonyl, Het²carbonyloxyalkyl, Het²alkylcarbonyloxyalkyl, Het²aralkylcarbonyloxyalkyl, CR⁶=NR⁷, and CR⁶=N(OR⁷),

with R⁶ and R⁷ being independently selected from the group consisting of hydrogen, hydroxyl, alkyl, aryl, Het¹, Het¹alkyl, Het¹aryl, alkenyl, alkynyl, aminoalkyl, aminoaryl, alkylcarbonylamino, arylcarbonylamino, alkylthiocarbonylamino and arylthiocarbonylamino;

wherein R² and R³ are independently selected from the group consisting of hydroxyl, alkyloxy, alkylsilyloxy, arylsilyloxy, alkyloxyalkyloxy, cycloalkyloxy cycloalkylalkyloxy, aralkyloxy, aryloxyalkyloxy, silyloxy, alkylcarbonyloxy, arylcarbonyloxy, cycloalkylcarbonyloxy, haloalkyloxy, hydroxyalkyloxy, aralkanoyloxy, aroyloxy, aryloxycarbonylalkyloxy, formyloxy, Het¹alkyloxy, Het¹oxy, Het¹oxyalkyloxy, Het¹aryloxy, Het¹aralkyloxy, Het¹cycloalkyloxy, Het¹carbonyloxy, Het¹oxycarbonyloxy, Het¹alkanoyloxy, Het¹aralkanoyloxy, Het¹aryloxyalkyloxy, Het¹aroyl, Het²oxy, Het²alkyloxy, Het²oxyalkyloxy, Het²aralkyloxy, Het²cycloalkyloxy, Het²alkanoyloxy, Het²aralkanoyloxy, Het²carbonyloxy, Het²aryloxy, and Het²aryloxyalkyloxy;

wherein R¹, R² and R³ are unsubstituted or substituted by one or more substituents independently selected from the group consisting of alkyl, aralkyl, aryl, Het¹, Het², cycloalkyl, alkylloxycarbonyl, carboxyl, aminocarbonyl, mono- or di(alkyl)aminocarbonyl, aminosulfonyl, alkylS(=O)_t, hydroxy, cyano, halogen and amino, unsubstituted, mono- or disubstituted wherein the substituents are independently selected from the group consisting of alkyl, aryl, aralkyl, aryloxy, arylamino, arylthio, aryloxyalkyl, arylaminoalkyl, aralkoxy, alkylthio, alkoxy,

aryloxyalkoxy, arylaminoalkoxy, aralkylamino, aryloxyalkylamino, arylaminoalkylamino, arylthioalkoxy, arylthioalkylamino, aralkylthio, aryloxyalkylthio, arylaminoalkylthio, arylthioalkylthio, alkylamino, cycloalkyl, cycloalkylalkyl, Het¹, Het², Het¹alkyl, Het²alkyl, Het¹amino, Het²amino, Het¹alkylamino, Het²alkylamino, Het¹thio, Het²thio, Het¹alkylthio, Het²alkylthio, Het¹oxy and Het²oxy, OR⁸, SR⁸, SO₂NR⁸R⁹, SO₂N(OH)R⁸, CN, CR⁸=NR⁹, S(O)R⁸, SO₂R⁸, CR⁸=N(OR⁹), N₃, NO₂, NR⁸R⁹, N(OH)R⁸, C(O)R⁸, C(S)R⁸, CO₂R⁸, C(O)SR⁸, C(O)NR⁸R⁹, C(S)NR⁸R⁹, C(O)N(OH)R⁹, C(S)N(OH)R⁸, NR⁸C(O)R⁹, NR⁸C(S)R⁹, N(OH)C(O)R⁹, N(OH)C(S)R⁸, NR⁸CO₂R⁹, NR⁸C(O)NR⁹R¹⁰, NR⁸C(S)NR⁹R¹⁰, N(OH)CO₂R⁸, NR⁸C(O)SR⁹, N(OH)C(O)NR⁸R⁹, N(OH)C(S)NR⁸R⁹, NR⁸C(O)N(OH)R⁹, NR⁸C(S)N(OH)R⁹, NR⁸SO₂R⁹, NHSO₂NR⁸R⁹, NR⁸SO₂NHR⁹, and P(O)(OR⁸)(OR⁹),

with t being an integer between 1 and 2, and R⁸, R⁹ and R¹⁰ being each independently selected from the group consisting of hydrogen, hydroxyl, alkyl, aryl, Het¹, Het¹alkyl, Het¹aryl, alkenyl, alkynyl, aminoalkyl, aminoaryl, alkylcarbonylamino, arylcarbonylamino, alkylthiocarbonylamino and arylthiocarbonylamino;

wherein R⁴ and R⁵ are hydrogen or alkyl;

wherein Het¹ is defined as a saturated or partially unsaturated monocyclic, bicyclic or polycyclic heterocycle consisting of 3 to 12 ring members which comprise one or more heteroatom ring members selected from nitrogen, oxygen or sulfur, optionally substituted on one or more carbon atoms by alkyl, alkyloxy, halogen, hydroxyl, oxo, optionally mono- or disubstituted amino, nitro, cyano, haloalkyl, carboxyl, alkoxycarbonyl cycloalkyl, optionally mono- or disubstituted aminocarbonyl, methylthio, methylsulfonyl, aryl and a saturated or partially unsaturated monocyclic, bicyclic or tricyclic heterocycle consisting of 3 to 12 ring members which contain one or more heteroatom ring members selected from nitrogen, oxygen or sulfur and whereby the optional substituents on any amino function are independently selected from alkyl, alkyloxy, Het², Het²alkyl, Het²oxy, Het²oxyalkyl, aryl, aryloxy, aryloxyalkyl, aralkyl, alkyloxycarbonylamino, amino and aminoalkyl whereby each of the amino groups may optionally be mono- or disubstituted with alkyl;

wherein Het² is defined as an aromatic monocyclic, bicyclic or tricyclic heterocycle consisting of 3 to 12 ring members comprising one or more heteroatom ring members selected from nitrogen, oxygen or sulfur and optionally substituted on one or more carbon atoms by alkyl, alkyloxy,

halogen, hydroxyl, optionally mono-or disubstituted amino, nitro, cyano, haloalkyl, carboxyl, alkoxycarbonyl, cycloalkyl, optionally mono-or disubstituted aminocarbonyl, methylthio, methylsulfonyl, aryl, Het¹ and an aromatic monocyclic, bicyclic, or tricyclic heterocycle consisting of 3 to 12 ring members, whereby the optional substituents on any amino function are independently selected from alkyl, alkyloxy, Het¹, Het¹alkyl, Het¹oxy, Het¹oxyalkyl, aryl, aryloxy, aryloxyalkyl, aralkyl, alkyloxycarbonylamino, amino, and amionalkyl whereby each of the amino groups may optionally be mono- or disubstituted with alkyl.

18. (Previously presented) A compound according to claim 17, wherein R¹ is selected from the group consisting of alkyl, alkenyl, alkynyl, alkyloxyalkyl, alkylthioalkyl, alkanoyl, cycloalkylalkyl, cycloalkylcarbonyl, cycloalkylalkanoyl, cycloalkylthioalkyl, silyloxyalkyl, aralkyl, arylalkenyl, arylcarbonyl, arylthioalkyl, aralkanoyl, aroyl, silyloxyalkyl, carboxyl, alkenylcarbonyl, alkynylcarbonyl, Het¹oxyalkyl, Het¹aryloxyalkyl, Het¹alkyloxyalkyl, Het¹arylthioalkyl, Het¹oxyalkylcarbonyl, Het¹alkyloxyalkylcarbonyl, Het¹aryloxyalkylcarbonyl, Het²oxyalkyl, Het²alkyloxyalkyl, Het²aryloxyalkyl, Het²arylthioalkyl, Het²oxyalkylcarbonyl, Het²alkyloxyalkylcarbonyl, Het²aryloxyalkylcarbonyl, CR⁶=NR⁷, and CR⁶=N(OR⁷), with R⁶ and R⁷ being independently selected from the group consisting of hydrogen, hydroxyl, alkyl, aryl, Het¹, Het¹alkyl, Het¹aryl, alkenyl, alkynyl, aminoalkyl, aminoaryl, alkylcarbonylamino, arylcarbonylamino, alkylthiocarbonylamino and arylthiocarbonylamino;

wherein R² and R³ are independently selected from the group consisting of hydroxyl, alkyloxy, alkylsilyloxy, arylsilyloxy, alkyloxyalkyloxy, cycloalkyloxy cycloalkylalkyloxy, aralkyloxy, aryloxyalkyloxy, silyloxy, alkylcarbonyloxy, arylcarbonyloxy, cycloalkylcarbonyloxy, haloalkyloxy, hydroxyalkyloxy, aralkanoyloxy, aroyloxy, aryloxycarbonylalkyloxy, formyloxy, Het¹alkyloxy, Het¹oxy, Het¹oxyalkyloxy, Het¹aryloxy, Het¹aralkyloxy, Het¹cycloalkyloxy, Het¹carbonyloxy, Het¹oxycarbonyloxy, Het¹alkanoyloxy, Het¹aralkanoyloxy, Het¹aryloxyalkyloxy, Het¹aroyl, Het²oxy, Het²alkyloxy; Het²oxyalkyloxy, Het²aralkyloxy, Het²cycloalkyloxy, Het²alkanoyloxy, Het²aralkanoyloxy, Het²carbonyloxy, Het²aryloxy, and Het²aryloxyalkyloxy;

wherein R^1 , R^2 and R^3 are unsubstituted or substituted by one or more substituents independently selected from the group consisting of alkyl, aralkyl, aryl, Het¹, Het², cycloalkyl, alkyloxycarbonyl, carboxyl, aminocarbonyl, mono- or di(alkyl)aminocarbonyl, aminosulfonyl, alkylS(=O)_t, hydroxy, cyano, halogen and amino, unsubstituted, mono- or disubstituted wherein the substituents are independently selected from the group consisting of alkyl, aryl, aralkyl, aryloxy, arylamino, arylthio, aryloxyalkyl, arylaminoalkyl, aralkoxy, alkylthio, alkoxy, aryloxyalkoxy, arylaminoalkoxy, aralkylamino, aryloxyalkylamino, arylaminoalkylamino, arylthioalkoxy, arylthioalkylamino, aralkylthio, aryloxyalkylthio, arylaminoalkylthio, arylthioalkylthio, alkylamino, cycloalkyl, cycloalkylalkyl, Het¹, Het², Het¹alkyl, Het²alkyl, Het¹amino, Het²amino, Het¹alkylamino, Het²alkylamino, Het¹thio, Het²thio, Het¹alkylthio, Het²alkylthio, Het¹oxy and Het²oxy, OR⁸, SR⁸, SO₂NR⁸R⁹, SO₂N(OH)R⁸, CN, CR⁸=NR⁹, S(O)R⁸, SO₂R⁸, CR⁸=N(OR⁹), N₃, NO₂, NR⁸R⁹, N(OH)R⁸, C(O)R⁸, C(S)R⁸, CO₂R⁸, C(O)SR⁸, C(O)NR⁸R⁹, C(S)NR⁸R⁹, C(O)N(OH)R⁹, C(S)N(OH)R⁸, NR⁸C(O)R⁹, NR⁸C(S)R⁹, N(OH)C(O)R⁹, N(OH)C(S)R⁸, NR⁸CO₂R⁹, NR⁸C(O)NR⁹R¹⁰, NR⁸C(S)NR⁹R¹⁰, N(OH)CO₂R⁸, NR⁸C(O)SR⁹, N(OH)C(O)NR⁸R⁹, N(OH)C(S)NR⁸R⁹, NR⁸C(O)N(OH)R⁹, NR⁸C(S)N(OH)R⁹, NR⁸SO₂R⁹, NHSO₂NR⁸R⁹, NR⁸SO₂NHR⁹, and P(O)(OR⁸)(OR⁹),

with t being an integer between 1 and 2, and R⁸, R⁹ and R¹⁰ being each independently selected from the group consisting of hydrogen, hydroxyl, alkyl, aryl, Het¹, Het¹alkyl, Het¹aryl, alkenyl, alkynyl, aminoalkyl, aminoaryl, alkylcarbonylamino, arylcarbonylamino, alkylthiocarbonylamino and arylthiocarbonylamino; and

wherein R⁴ and R⁵ are hydrogen or alkyl.

19. (Previously presented) A compound according to claim 17 or 18, wherein R¹ is selected from the group consisting of alkyl, alkenyl, alkynyl, alkyloxyalkyl, alkylthioalkyl, cycloalkylalkyl, cycloalkylthioalkyl, silyloxyalkyl, aralkyl, arylalkenyl, arylthioalkyl, silyloxyalkyl, carboxyl, Het¹oxyalkyl, Het¹aryloxyalkyl, Het¹alkyloxyalkyl, Het¹arylthioalkyl, Het²oxyalkyl, Het²alkyloxyalkyl, Het²aryloxyalkyl, and Het²arylthioalkyl, unsubstituted or substituted by one or more substituents independently selected from the group consisting of alkyl, aralkyl, aryl, Het¹, Het², cycloalkyl, alkyloxycarbonyl, carboxyl, aminocarbonyl, mono- or di(alkyl)aminocarbonyl, aminosulfonyl, alkylS(=O)_t, hydroxy, cyano, halogen and amino,

unsubstituted, mono- or disubstituted wherein the substituents are independently selected from the group consisting of alkyl, aryl, aralkyl, aryloxy, arylamino, arylthio, aryloxyalkyl, arylaminoalkyl, aralkoxy, alkylthio, alkoxy, aryloxyalkoxy, arylaminoalkoxy, aralkylamino, aryloxyalkylamino, arylaminoalkylamino, arylthioalkoxy, arylthioalkylamino, aralkylthio, aryloxyalkylthio, arylaminoalkylthio, arylthioalkylthio, alkylamino, cycloalkyl, cycloalkylalkyl, Het¹, Het², Het¹alkyl, Het²alkyl, Het¹amino, Het²amino, Het¹alkylamino, Het²alkylamino, Het¹thio, Het²thio, Het¹alkylthio, Het²alkylthio, Het¹oxy and Het²oxy, OR⁸, SR⁸, SO₂NR⁸R⁹, SO₂N(OH)R⁸, CN, CR⁸=NR⁹, S(O)R⁸, SO₂R⁸, CR⁸=N(OR⁹), N₃, NO₂, NR⁸R⁹, N(OH)R⁸, C(O)R⁸, C(S)R⁸, CO₂R⁸, C(O)SR⁸, C(O)NR⁸R⁹, C(S)NR⁸R⁹, C(O)N(OH)R⁹, C(S)N(OH)R⁸, NR⁸C(O)R⁹, NR⁸C(S)R⁹, N(OH)C(O)R⁹, N(OH)C(S)R⁸, NR⁸CO₂R⁹, NR⁸C(O)NR⁹R¹⁰, NR⁸C(S)NR⁹R¹⁰, N(OH)CO₂R⁸, NR⁸C(O)SR⁹, N(OH)C(O)NR⁸R⁹, N(OH)C(S)NR⁸R⁹, NR⁸C(O)N(OH)R⁹, NR⁸C(S)N(OH)R⁹, NR⁸SO₂R⁹, NHSO₂NR⁸R⁹, NR⁸SO₂NHR⁹, and P(O)(OR⁸)(OR⁹),

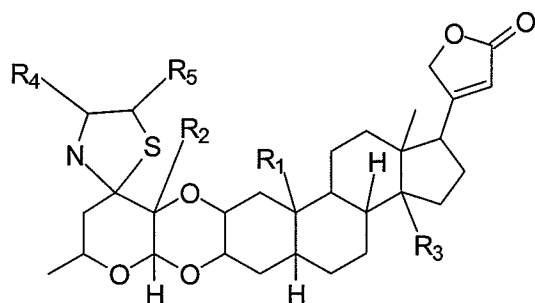
with t being an integer between 1 and 2, and R⁸, R⁹ and R¹⁰ being each independently selected from the group consisting of hydrogen, hydroxyl, alkyl, aryl, Het¹, Het¹alkyl, Het¹aryl, alkenyl, alkynyl, aminoalkyl, aminoaryl, alkylcarbonylamino, arylcarbonylamino, alkylthiocarbonylamino and arylthiocarbonylamino; wherein R² and R³ are hydroxyl and wherein R⁴ and R⁵ are hydrogen or alkyl.

20. (Previously presented) A compound according to claim 17 or 18, wherein R¹ is selected from the group consisting of alkyl, alkenyl, alkynyl, alkyloxyalkyl, cycloalkylalkyl, silyloxyalkyl, aralkyl, arylalkenyl, carboxyl, Het¹oxyalkyl, Het¹aryloxyalkyl, Het¹alkyloxyalkyl, Het²oxyalkyl, Het²alkyloxyalkyl, and Het²aryloxyalkyl, unsubstituted or substituted by one or more substituents independently selected from the group consisting of alkyl, aralkyl, aryl, Het¹, Het², cycloalkyl, alkyloxycarbonyl, carboxyl, aminocarbonyl, mono- or di(alkyl)aminocarbonyl, aminosulfonyl, alkylS(=O)_t, hydroxy, cyano, halogen and amino, unsubstituted, mono- or disubstituted wherein the substituents are independently selected from the group consisting of alkyl, aryl, aralkyl, aryloxy, arylamino, arylthio, aryloxyalkyl, arylaminoalkyl, aralkoxy, alkylthio, alkoxy, aryloxyalkoxy, arylaminoalkoxy, aralkylamino, aryloxyalkylamino, arylaminoalkylamino, arylthioalkoxy, arylthioalkylamino, aralkylthio, aryloxyalkylthio, arylaminoalkylthio,

arylthioalkylthio, alkylamino, cycloalkyl, cycloalkylalkyl, Het¹, Het², Het¹alkyl, Het²alkyl, Het¹amino, Het²amino, Het¹alkylamino, Het²alkylamino, Het¹thio, Het²thio, Het¹alkylthio, Het²alkylthio, Het¹oxy and Het²oxy, OR⁸, SR⁸, SO₂NR⁸R⁹, SO₂N(OH)R⁸, CN, CR⁸=NR⁹, S(O)R⁸, SO₂R⁸, CR⁸=N(OR⁹), N₃, NO₂, NR⁸R⁹, N(OH)R⁸, C(O)R⁸, C(S)R⁸, CO₂R⁸, C(O)SR⁸, C(O)NR⁸R⁹, C(S)NR⁸R⁹, C(O)N(OH)R⁹, C(S)N(OH)R⁸, NR⁸C(O)R⁹, NR⁸C(S)R⁹, N(OH)C(O)R⁹, N(OH)C(S)R⁸, NR⁸CO₂R⁹, NR⁸C(O)NR⁹R¹⁰, NR⁸C(S)NR⁹R¹⁰, N(OH)CO₂R⁸, NR⁸C(O)SR⁹, N(OH)C(O)NR⁸R⁹, N(OH)C(S)NR⁸R⁹, NR⁸C(O)N(OH)R⁹, NR⁸C(S)N(OH)R⁹, NR⁸SO₂R⁹, NHSO₂NR⁸R⁹, NR⁸SO₂NHR⁹, and P(O)(OR⁸)(OR⁹),

with t being an integer between 1 and 2, and R⁸ R⁹ and R¹⁰ being each independently selected from the group consisting of hydrogen, hydroxyl, alkyl, aryl, Het¹, Het¹alkyl, Het¹aryl, alkenyl, alkynyl, aminoalkyl, aminoaryl, alkylcarbonylamino, arylcarbonylamino, alkylthiocarbonylamino and arylthiocarbonylamino; wherein R² and R³ are hydroxyl and wherein R⁴ and R⁵ are hydrogen.

21. (Previously presented) A compound having the formula Ib or a pharmaceutically acceptable salt or ester thereof,
 formula Ib



wherein R¹ is selected from the group consisting of alkenyl, alkynyl, alkyloxyalkyl, alkylthioalkyl, alkyloxycarbonyl, alkanoyl, cycloalkylalkyl, cycloalkylcarbonyl, cycloalkylalkanoyl, cycloalkylalkoxycarbonyl, cycloalkylthioalkyl, alkylcarbonyloxyalkyl, arylcarbonyloxyalkyl, cycloalkylcarbonyloxyalkyl, silyloxyalkyl, aralkyl, arylalkenyl, arylcarbonyl, aryloxycarbonyl, aralkoxycarbonyl, arylthioalkyl, aralkanoyl, aroyl, silyloxyalkyl, carboxyl, alkenylcarbonyl, alkynylcarbonyl, Het¹oxyalkyl, Het¹alkoxycarbonyl, Het¹oxycarbonyl, Het¹aryloxyalkyl, Het¹alkyloxyalkyl, Het¹arylthioalkyl, Het¹aryloxycarbonyl,

Het¹aralkoxycarbonyl, Het¹oxyalkylcarbonyl, Het¹alkyloxyalkylcarbonyl,
 Het¹aryloxyalkylcarbonyl, Het¹carbonyloxyalkyl, Het¹alkylcarbonyloxyalkyl,
 Het¹aralkylcarbonyloxyalkyl, Het²oxyalkyl, Het²alkyloxyalkyl, Het²oxycarbonyl,
 Het²alkoxycarbonyl, Het²aralkoxycarbonyl, Het²aryloxyalkyl, Het²aryloxyalkyl,
 Het²arylthioalkyl, Het²oxyalkylcarbonyl, Het²alkyloxyalkylcarbonyl, Het²aryloxyalkylcarbonyl,
 Het²carbonyloxyalkyl, Het²alkylcarbonyloxyalkyl, Het²aralkylcarbonyloxyalkyl, CR⁶=NR⁷, and
 CR⁶=N(OR⁷),

with R⁶ and R⁷ being independently selected from the group consisting of hydrogen, hydroxyl, alkyl, aryl, Het¹, Het¹alkyl, Het¹aryl, alkenyl, alkynyl, aminoalkyl, aminoaryl, alkylcarbonylamino, arylcarbonylamino, alkylthiocarbonylamino and arylthiocarbonylamino;

wherein R¹ is unsubstituted or substituted by one or more substituents independently selected from the group consisting of alkyl, aralkyl, aryl, Het¹, Het², cycloalkyl, alkyloxycarbonyl, carboxyl, aminocarbonyl, mono- or di(alkyl)aminocarbonyl, aminosulfonyl, alkylS(=O)_t, hydroxy, cyano, halogen and amino, unsubstituted, mono- or disubstituted wherein the substituents are independently selected from the group consisting of alkyl, aryl, aralkyl, aryloxy, arylamino, arylthio, aryloxyalkyl, arylaminoalkyl, aralkoxy, alkylthio, alkoxy, aryloxyalkoxy, arylaminoalkoxy, aralkylamino, aryloxyalkylamino, arylaminoalkylamino, arylthioalkoxy, arylthioalkylamino, aralkylthio, aryloxyalkylthio, arylaminoalkylthio, arylthioalkylthio, alkylamino, cycloalkyl, cycloalkylalkyl, Het¹, Het², Het¹alkyl, Het²alkyl, Het¹amino, Het²amino, Het¹alkylamino, Het²alkylamino, Het¹thio, Het²thio, Het¹alkylthio, Het²alkylthio, Het¹oxy and Het²oxy, OR⁸, SR⁸, SO₂NR⁸R⁹, SO₂N(OH)R⁸, CN, CR⁸=NR⁹, S(O)R⁸, SO₂R⁸, CR⁸=N(OR⁹), N₃, NO₂, NR⁸R⁹, N(OH)R⁸, C(O)R⁸, C(S)R⁸, CO₂R⁸, C(O)SR⁸, C(O)NR⁸R⁹, C(S)NR⁸R⁹, C(O)N(OH)R⁹, C(S)N(OH)R⁸, NR⁸C(O)R⁹, NR⁸C(S)R⁹, N(OH)C(O)R⁹, N(OH)C(S)R⁸, NR⁸CO₂R⁹, NR⁸C(O)NR⁹R¹⁰, NR⁸C(S)NR⁹R¹⁰, N(OH)CO₂R⁸, NR⁸C(O)SR⁹, N(OH)C(O)NR⁸R⁹, N(OH)C(S)NR⁸R⁹, NR⁸C(O)N(OH)R⁹, NR⁸C(S)N(OH)R⁹, NR⁸SO₂R⁹, NHSO₂NR⁸R⁹, NR⁸SO₂NHR⁹, and P(O)(OR⁸)(OR⁹),

with t being an integer between 1 and 2, and R⁸, R⁹ and R¹⁰ being each independently selected from the group consisting of hydrogen, hydroxyl, alkyl, aryl, Het¹, Het¹alkyl, Het¹aryl, alkenyl, alkynyl, aminoalkyl, aminoaryl, alkylcarbonylamino, arylcarbonylamino, alkylthiocarbonylamino and arylthiocarbonylamino, and

wherein R² and R³ are hydroxyl and wherein R⁴ is replaced by a double bond between the N atom and the C carbon atom of the N-containing heterocyclic ring of formula Ib; and wherein R⁵ is hydrogen;

wherein Het¹ is defined as a saturated or partially unsaturated monocyclic, bicyclic or polycyclic heterocycle consisting of 3 to 12 ring members which comprise one or more heteroatom ring members selected from nitrogen, oxygen or sulfur, optionally substituted on one or more carbon atoms by alkyl, alkyloxy, halogen, hydroxyl, oxo, optionally mono- or disubstituted amino, nitro, cyano, haloalkyl, carboxyl, alkoxycarbonyl cycloalkyl, optionally mono-or disubstituted aminocarbonyl, methylthio, methylsulfonyl, aryl and a saturated or partially unsaturated monocyclic, bicyclic or tricyclic heterocycle consisting of 3 to 12 ring members which contain one or more heteroatom ring members selected from nitrogen, oxygen or sulfur and whereby the optional substituents on any amino function are independently selected from alkyl, alkyloxy, Het², Het²alkyl, Het²oxy, Het²oxyalkyl, aryl, aryloxy, aryloxyalkyl, aralkyl, alkyloxycarbonylamino, amino and aminoalkyl whereby each of the amino groups may optionally be mono-or disubstituted with alkyl;

wherein Het² is defined as an aromatic monocyclic, bicyclic or tricyclic heterocycle consisting of 3 to 12 ring members comprising one or more heteroatom ring members selected from nitrogen, oxygen or sulfur and optionally substituted on one or more carbon atoms by alkyl, alkyloxy, halogen, hydroxyl, optionally mono-or disubstituted amino, nitro, cyano, haloalkyl, carboxyl, alkoxycarbonyl, cycloalkyl, optionally mono-or disubstituted aminocarbonyl, methylthio, methylsulfonyl, aryl, Het¹ and an aromatic monocyclic, bicyclic, or tricyclic heterocycle consisting of 3 to 12 ring members, whereby the optional substituents on any amino function are independently selected from alkyl, alkyloxy, Het¹, Het¹alkyl, Het¹oxy, Het¹oxyalkyl, aryl, aryloxy, aryloxyalkyl, aralkyl, alkyloxycarbonylamino, amino, and aminoalkyl whereby each of the amino groups may optionally be mono- or disubstituted with alkyl.

22. (Previously presented) A compound according to claim 21, wherein R¹ is selected from the group consisting of alkenyl, alkynyl, alkyloxyalkyl, cycloalkylalkyl, silyloxyalkyl, aralkyl, arylalkenyl, carboxyl, Het¹oxyalkyl, Het¹aryloxyalkyl, Het¹alkyloxyalkyl, Het²oxyalkyl, Het²alkyloxyalkyl, and Het²aryloxyalkyl, unsubstituted or substituted by one or more substituents

independently selected from the group consisting of alkyl, aralkyl, aryl, Het¹, Het², cycloalkyl, alkyloxycarbonyl, carboxyl, aminocarbonyl, mono- or di(alkyl)aminocarbonyl, aminosulfonyl, alkylS(=O)_t, hydroxy, cyano, halogen and amino, unsubstituted, mono- or disubstituted wherein the substituents are independently selected from the group consisting of alkyl, aryl, aralkyl, aryloxy, arylamino, arylthio, aryloxyalkyl, arylaminoalkyl, aralkoxy, alkylthio, alkoxy, aryloxyalkoxy, arylaminoalkoxy, aralkylamino, aryloxyalkylamino, arylaminoalkylamino, arylthioalkoxy, arylthioalkylamino, aralkylthio, aryloxyalkylthio, arylaminoalkylthio, arylthioalkylthio, alkylamino, cycloalkyl, cycloalkylalkyl, Het¹, Het², Het¹alkyl, Het²alkyl, Het¹amino, Het²amino, Het¹alkylamino, Het²alkylamino, Het¹thio, Het²thio, Het¹alkylthio, Het²alkylthio, Het¹oxy and Het²oxy, OR⁸, SR⁸, SO₂NR⁸R⁹, SO₂N(OH)R⁸, CN, CR⁸=NR⁹, S(O)R⁸, SO₂R⁸, CR⁸=N(OR⁹), N₃, NO₂, NR⁸R⁹, N(OH)R⁸, C(O)R⁸, C(S)R⁸, CO₂R⁸, C(O)SR⁸, C(O)NR⁸R⁹, C(S)NR⁸R⁹, C(O)N(OH)R⁹, C(S)N(OH)R⁸, NR⁸C(O)R⁹, NR⁸C(S)R⁹, N(OH)C(O)R⁹, N(OH)C(S)R⁸, NR⁸CO₂R⁹, NR⁸C(O)NR⁹R¹⁰, NR⁸C(S)NR⁹R¹⁰, N(OH)CO₂R⁸, NR⁸C(O)SR⁹, N(OH)C(O)NR⁸R⁹, N(OH)C(S)NR⁸R⁹, NR⁸C(O)N(OH)R⁹, NR⁸C(S)N(OH)R⁹, NR⁸SO₂R⁹, NHSO₂NR⁸R⁹, NR⁸SO₂NHR⁹, and P(O)(OR⁸)(OR⁹),

with t being an integer between 1 and 2, and R⁸ R⁹ and R¹⁰ being each independently selected from the group consisting of hydrogen, hydroxyl, alkyl, aryl, Het¹, Het¹alkyl, Het¹aryl, alkenyl, alkynyl, aminoalkyl, aminoaryl, alkylcarbonylamino, arylcarbonylamino, alkylthiocarbonylamino and arylthiocarbonylamino; wherein R² and R³ are hydroxyl and wherein R⁴ and R⁵ are hydrogen.

23. (Previously presented) A compound according to claim 22, wherein R¹ is selected from the group consisting of alkyl, alkenyl, alkynyl, alkyloxyalkyl, cycloalkylalkyl, silyloxyalkyl, aralkyl, arylalkenyl, carboxyl, Het¹oxyalkyl, Het¹aryloxyalkyl, Het¹alkyloxyalkyl, Het²oxyalkyl, Het²alkyloxyalkyl, and Het²aryloxyalkyl, unsubstituted or substituted by one or more substituents independently selected from the group consisting of alkyl, aralkyl, aryl, Het¹, Het², cycloalkyl, alkyloxycarbonyl, carboxyl, aminocarbonyl, mono- or di(alkyl)aminocarbonyl, aminosulfonyl, alkylS(=O)_t, hydroxy, cyano, halogen and amino, unsubstituted, mono- or disubstituted wherein the substituents are independently selected from the group consisting of alkyl, aryl, aralkyl, aryloxy, arylamino, arylthio, aryloxyalkyl, arylaminoalkyl, aralkoxy, alkylthio, alkoxy,

aryloxyalkoxy, arylaminoalkoxy, aralkylamino, aryloxyalkylamino, arylaminoalkylamino, arylthioalkoxy, arylthioalkylamino, aralkylthio, aryloxyalkylthio, arylaminoalkylthio, arylthioalkylthio, alkylamino, cycloalkyl, cycloalkylalkyl, Het¹, Het², Het¹alkyl, Het²alkyl, Het¹amino, Het²amino, Het¹alkylamino, Het²alkylamino, Het¹thio, Het²thio, Het¹alkylthio, Het²alkylthio, Het¹oxy and Het²oxy, OR⁸, SR⁸, SO₂NR⁸R⁹, SO₂N(OH)R⁸, CN, CR⁸=NR⁹, S(O)R⁸, SO₂R⁸, CR⁸=N(OR⁹), N₃, NO₂, NR⁸R⁹, N(OH)R⁸, C(O)R⁸, C(S)R⁸, CO₂R⁸, C(O)SR⁸, C(O)NR⁸R⁹, C(S)NR⁸R⁹, C(O)N(OH)R⁹, C(S)N(OH)R⁸, NR⁸C(O)R⁹, NR⁸C(S)R⁹, N(OH)C(O)R⁹, N(OH)C(S)R⁸, NR⁸CO₂R⁹, NR⁸C(O)NR⁹R¹⁰, NR⁸C(S)NR⁹R¹⁰, N(OH)CO₂R⁸, NR⁸C(O)SR⁹, N(OH)C(O)NR⁸R⁹, N(OH)C(S)NR⁸R⁹, NR⁸C(O)N(OH)R⁹, NR⁸C(S)N(OH)R⁹, NR⁸SO₂R⁹, NHSO₂NR⁸R⁹, NR⁸SO₂NHR⁹, and P(O)(OR⁸)(OR⁹),

with t being an integer between 1 and 2, and R⁸, R⁹ and R¹⁰ being each independently selected from the group consisting of hydrogen, hydroxyl, alkyl, aryl, Het¹, Het¹alkyl, Het¹aryl, alkenyl, alkynyl, aminoalkyl, aminoaryl, alkylcarbonylamino, arylcarbonylamino, alkylthiocarbonylamino and arylthiocarbonylamino, wherein R² and R³ are hydroxyl; wherein R⁴ is replaced by a double bond between the N atom and the C carbon atom of the N-containing heterocyclic ring of formula Ib; and wherein R⁵ is hydrogen.

24-25. (Cancelled)

26. (Previously presented) A pharmaceutical composition comprising a pharmaceutically acceptable excipient and a therapeutically effective amount of a compound according to any one of claims 1, 17 and 21.

27. (Original) A pharmaceutical composition comprising a pharmaceutically acceptable excipient and a therapeutically effective amount of a compound according to claim 9.

28. (Original) A pharmaceutical composition comprising a pharmaceutically acceptable excipient and a therapeutically effective amount of a compound according to claim 11.

29. (Cancelled)

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30. (Currently amended) A method of treating cancer comprising administering a compound according to any one of claims 1, 17, and 21 to an individual in need of such treatment, wherein the cancer is selected from the group consisting of lung cancer, breast cancer, melanoma cancer, glioma, colon cancer, bladder cancer, and prostate cancer ~~and pancreatic cancer~~.

31. (Cancelled)

32. (Currently amended) A method of treating cancer comprising administering to an individual in need of such treatment a pharmaceutical composition according to claim 26, wherein the cancer is selected from the group consisting of lung cancer, breast cancer, melanoma cancer, glioma, colon cancer, bladder cancer, and prostate cancer ~~and pancreatic cancer~~.